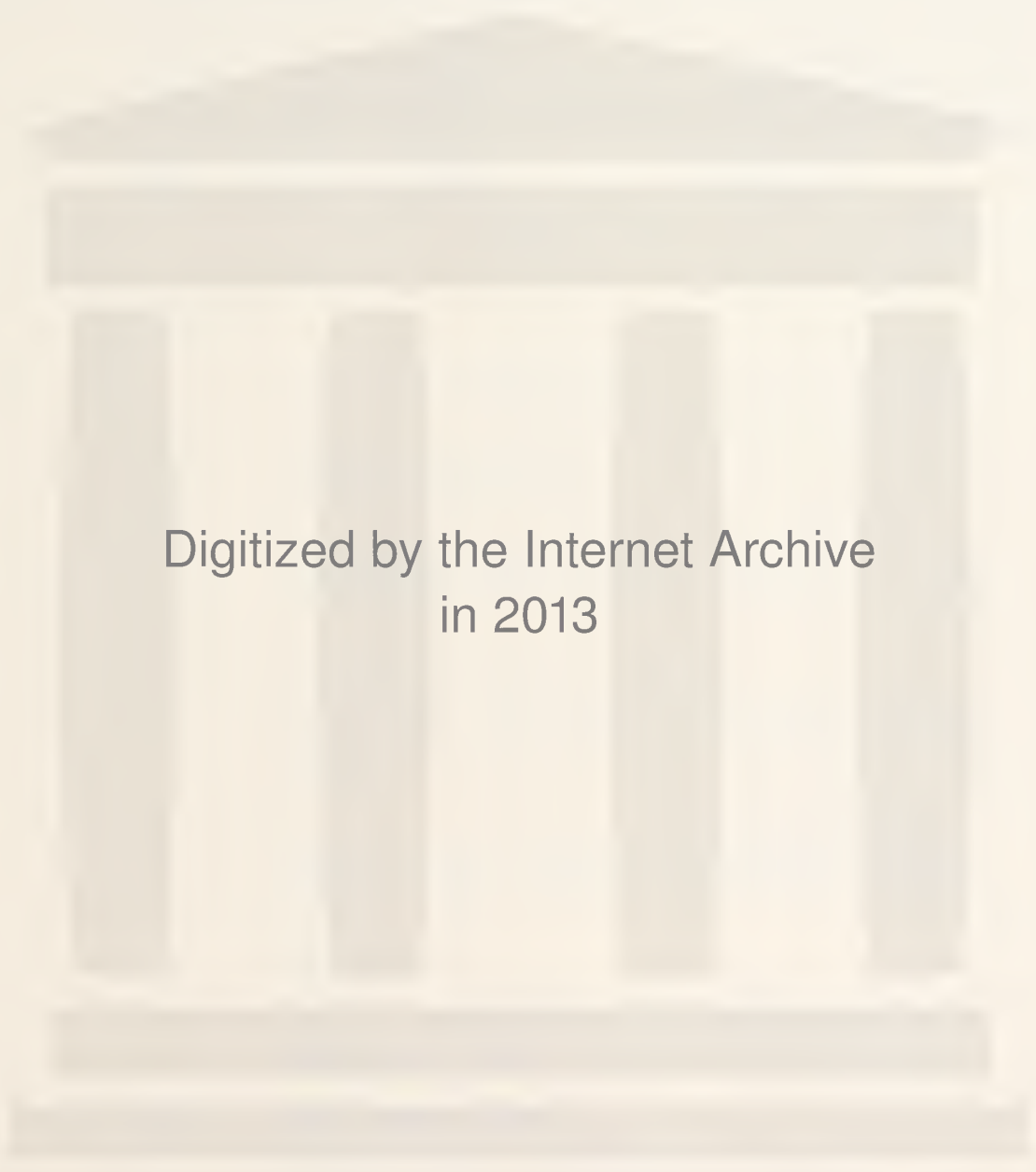
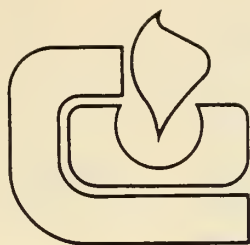






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Events

INFORMATION FOR THE FACULTY AND STAFF OF CLEMSON UNIVERSITY

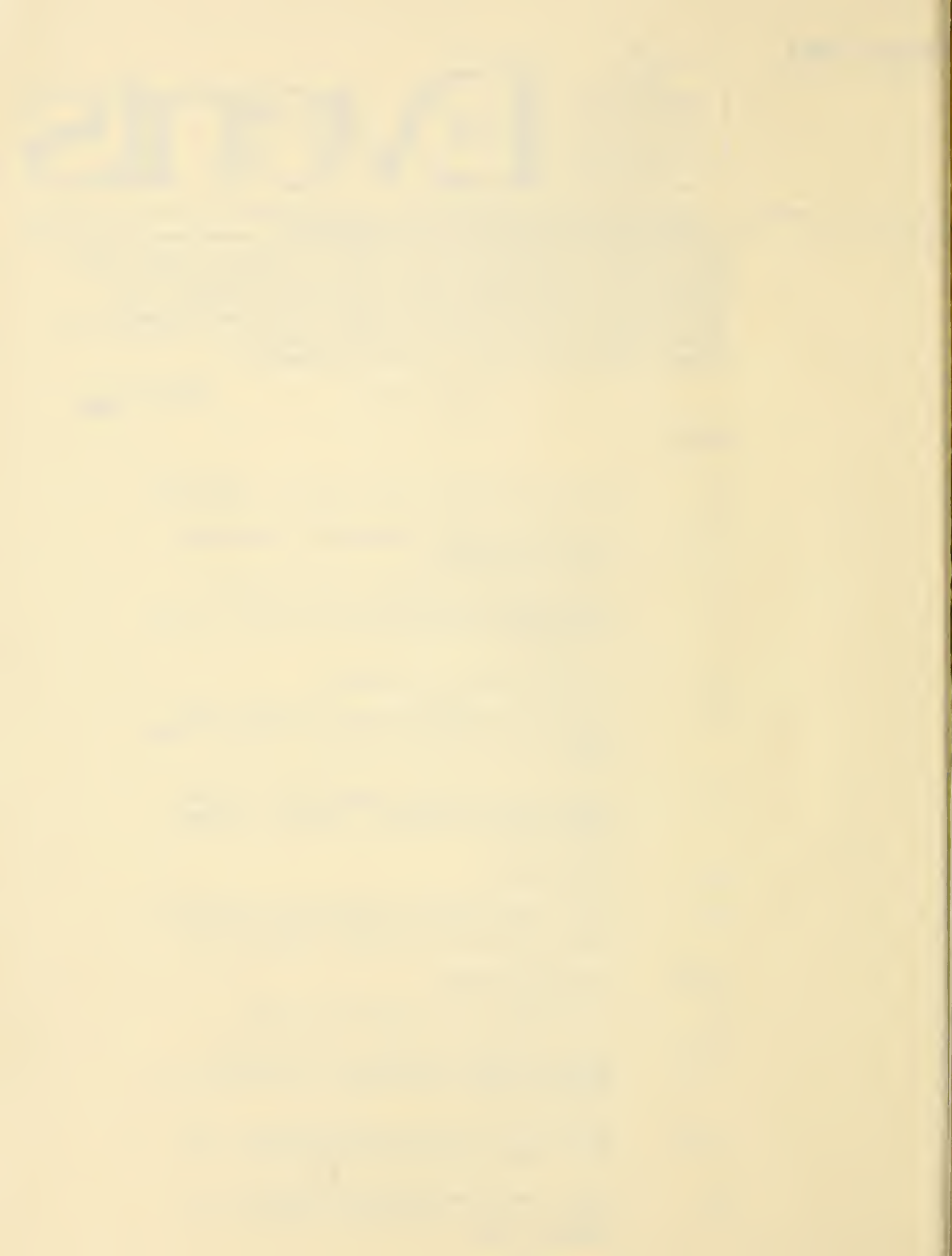
This calendar is prepared up to a month in advance. Please send in writing to the Department of Publications and Graphics Services, 103 Fike Center, any campus event that should be listed. You may also want to call 656-4993 to check the Internal Communications master calendar for possible scheduling conflicts. (Call the number listed in each entry for more information.)

August 15-22

AUG 12 1986

EVENTS

- 17 University housing opens at 10 a.m. (656-2295).
- 17-24 Sorority Rush Week: Sponsored by Panhellenic Council (656-5994).
- 18 Faculty/Staff Orientation. To be held in Lyles Auditorium, Lee Hall, 7:45 a.m. - 7 p.m., (656-3941).
- 18 Orientation for fall semester.
- 19 New Faculty Orientation. To be held in Lyles Auditorium, Lee Hall, 8:30 a.m. - 12 p.m., (656-3941).
- 19 Welcome Back Festival. Sponsored by Student Alumni Council (656-2345), 5-8 p.m., College Avenue, free.
- 19 Registration.
- 20 Movie: "Body Double." Sponsored by University Union (656-5832), 7:30 p.m., Y-Theatre, \$2.
- 20-27 Late registration.
- 21 Classes begin; late registration fee.
- 21-23 Movie: "Jewel of the Nile." Sponsored by University Union (656-5832), 7 & 9:15 p.m., Y-Theatre, \$1.50.
- 21-31 Welcome Week at the University Union, (656-2461), various events and locations.
- 22 Movie: "Rocky Horror Show." Sponsored by University Union (656-5832), Midnight, Ampitheatre, free.



- 22 College Bowl Triple Thriller. A game between students, faculty and administration. Sponsored by University Union (656-5832), 11 a.m.-2 p.m., Loggia, free.
- Through Exhibit: "Yugoslav Urban Design Youth
Aug. 25 Competition/Exhibit, 1982, 1983, 1984."
Sponsored by College of Architecture (656-3081),
9 a.m.-4:30 p.m. weekdays, 2-5 p.m. Sundays,
Rudolph E. Lee Gallery, Lee Hall, free.
- Through Exhibit: "The Performing Arts at Clemson."
August Sponsored by Special Collections (656-5176),
main lobby of Cooper Library.
- Continuous YMCA-sponsored classes in women's and men's
fitness, youth fitness, aerobics, exercise,
Jazzercise, social dancing, Middle Eastern
dance, swimming, gymnastics, aquacize, soccer
camp, day camp (ages 5-13), lifesaving, and
after-school day-care programs, (656-2460).

Newsletter

Aug. 20, 1986
Vol 26 No 1

INFORMATION FOR THE FACULTY AND STAFF OF CLEMSON UNIVERSITY

AUG 20 1986

INAUGURAL LUNCHEON TICKETS AVAILABLE IN 209 SIKES

Dignitaries, higher education officials, university presidents from across the nation and representatives from learned societies will be on campus Sept. 6 for the inauguration of Max Lennon as Clemson's 11th president.

The ceremony will begin at 10:30 a.m. in the Outdoor Theatre and will be followed by an old-fashioned barbecue luncheon on the library lawn.

Lennon will talk about his goals for Clemson as it begins its second century of public service and education.

No other speaker is scheduled.

Music will be provided by the University's symphonic band.

Faculty and staff members, alumni, students and friends of Clemson are invited.

"We're hoping as many people as possible will attend this joyous event for Clemson," says Vice Provost Jerry Reel, who's coordinating the event.

The inauguration ceremony is free.

The luncheon is \$5 per person.

Persons planning to attend the luncheon can mail or take checks, made payable to Clemson University -- Inauguration, to Carol Kossman, 209 Sikes Hall, Clemson University, Clemson, S.C., 29634-5105, by Friday, Aug. 29.

Persons planning to attend either the ceremony or the luncheon are advised to bring lawn chairs or a blankets to sit on.

In case of rain, the inauguration and the luncheon will be held in Littlejohn Coliseum.



HONORARY DEGREE RECIPIENT Roy Pearce, right, gets a handshake from commencement speaker James Holderman, president of the University of South Carolina, during graduation Aug. 9. In the middle is Alumni Professor Emeritus Hugh Macaulay, who accepted an honorary degree for Frank Wardlaw, the first director of the USC Press.

FACULTY RECEIVE RESEARCH GRANTS IN 'SECOND CENTURY' EMPHASIS AREA

University faculty members have been awarded two major research contracts in one of the five emphasis areas in the recently announced "Second Century" long-range research and public service plan.

Contracts for projects in the plan's "emerging technologies" area were awarded under the University Research Initiative, a new federal program to boost the capacity of universities to conduct research and train graduate students in key science and engineering areas.

The mathematical sciences department has been awarded a \$3.2-million contract from the U.S. Office of Naval Research to support basic and applied research in discrete mathematics and computational analysis.

Mechanical engineering researchers will be

(Continued on page 2.)

ENROLLMENT ESTIMATES FOR FALL 1986

Here are enrollment figures and estimates from the Office of Admissions and Registration.

Undergrads by College	Estimated Fall 1986	Actual Fall 1985
Ag Sciences	463	465
Architecture	408	410
Commerce & Ind	2,470	2,483
Education	894	898
Engineering	2,981	2,996
Forest & Rec. Resources	390	392
Liberal Arts	896	901
Nursing	386	388
Sciences	1,303	1,310
Non-Degree	191	191
Undrgrd Total	10,382	10,434
Grad Students	2,700	2,459
Off-Campus Programs	778	767
TOTAL ENROLL.	13,860	13,660

SAT SCORES OF FRESHMEN BY COLLEGE IN 1985

The following figures from the Provost's Office show average total (verbal & math) SAT scores for new freshmen in 1985.

College	1985
Agricultural Sciences	940
Architecture	1,075
Commerce and Industry	999
Education	918
Engineering	1,071
Forest & Rec. Resources	891
Liberal Arts	989
Nursing	926
Sciences	1,036
University Average	1,012

(Continued from page 1.)

part of a cooperative research effort, funded by the U.S. Air Force Office of Scientific Research, involving Carnegie Mellon and the University of California at Berkeley to develop advanced technologies for high-temperature structural materials.

Nearly 1,000 proposals were received from 175 universities, and 70 contracts were awarded. Only three contracts were awarded in mathematics, with Purdue University and the University of California at Los Angeles receiving the other two.

Eleven Clemson faculty members -- 10 in mathematical sciences and one in computer science -- will be involved in the math research initially, but other researchers will become involved in future years. Prof. Dan Warner will coordinate projects in computational analysis, while Prof. Charles Johnson will direct the discrete mathematics research.

"Because of the competitive nature of these research funds, this contract probably represents the single most impressive and visible research award to Clemson," Johnson says.

Clemson's participation in the Carnegie Mellon research project will bring at least \$1.25 million over the next five years to the mechanical engineering department. The total project was funded at more than \$5 million, and Clemson will receive approximately 25 percent, says mechanical engineering and metallurgy Prof. Henry Rack.

"From Clemson's standpoint, this contract helps our image in the field of composite materials," Rack says. "The major limiting factor on how far we can move in this field right now is faculty. We need to hire more, but it's hard to compete with industry."

President Max Lennon called the contracts "significant news for Clemson. They prove that we can

(Continued on page 3.)



The Clemson University Newsletter is published for Jay Gogue, associate director of University research, and for all members of the faculty and staff by the Division of University Relations.

University News Editor Jack A. McKenzie

The staff welcomes your comments and suggestions. Call us at 656-4989 or write us at 103 Fike Center. DEADLINE: Aug. 20, noon for Aug. 27 issue.

In conjunction with the "state of the University" reports at today's general faculty meeting, this issue includes enrollment and budget statistics.

1985-86 PRIVATE GIVING BEATS PREVIOUS 18 MONTHS BY A MILLION

The following figures from the Development Office show a \$1.1-million increase in private giving during the 12 months of the 1985-86 fiscal year over the previous 18-month accounting period.

Development programs switched from a calendar-year accounting system to a fiscal-year system during the extended 1984-85 period.

Source	1984-85 (18 months)	1985-86 (12 months)
Alumni	\$1,396,138	\$2,856,884
Friends	233,358	918,274
Corporate Matching	240,038	230,624
Faculty & Staff	81,588	78,583
Parents	22,602	41,691
Bequests, Insurance, Trusts and Deferred Gifts	444,905	215,389
Foundations	1,201,936	864,195
Associations	221,482	177,733
Business & Industry	1,912,126	1,481,474
TOTAL	\$5,754,173	\$6,864,847

'TIGER' AND 'TAPS' BEGIN NEW YEAR

The first issue of The Tiger student newspaper for the fall will be Aug. 29. The ad deadline is 5 p.m. on Aug. 25.

University departments and employees may order copies of the 1987 TAPS yearbook for \$18 per copy during the fall. The price will jump to \$22 in the spring.

Departments wishing to order TAPS should send an interdepartmental order form to TAPS, Office of Student Life, 201 Mell Hall.

For more details on Tiger deadlines or TAPS, call Kirk Brague or Winkie Stiles at 656-2153.

(Continued from page 2.)

compete with the best and win.

"The efforts to win these contracts started before the Second Century plan was developed, but they fit right in with it. That shows that the faculty and deans were on target when they put the plan together, and it speaks well for future faculty initiatives to develop projects in the key areas."

In addition to emerging technologies, the plan's emphasis areas are agriculture, marketing and management, quality of life and textiles.

COLLEGE RESEARCH EXPENDITURES IN FY 1985-86

The following figures from the Office of Budgets and Planning and the Office of University Research reflect research money spent, not total awards, during the 1985-86 fiscal year.

COLLEGE	COMPETITIVE GRANTS	TOTAL*
Agricultural Sciences	\$ 2,053,620	\$16,654,743
Architecture	\$ 1,248	\$ 139,038
Commerce & Industry	\$ 367,074	\$ 637,591
Engineering	\$ 2,053,450	\$ 4,265,420
Forest & Rec. Resources	\$ 532,663	\$ 2,518,273
Liberal Arts	\$ 16,574	\$ 36,528
Nursing	\$ 9,073	\$ 133,849
Sciences	\$ 1,976,940	\$ 3,140,221
Other**	\$ 319,074	\$ 528,963
Total	\$ 7,329,716	\$28,054,626

*TOTAL column includes state appropriated, Experiment Station and other non-competitive funds.

**"Other" includes the Water Resources Research Institute, the Energy Research and Development Center, and the Office of Academic Affairs.

NOTES: Total University research expenditures for 1985-86 of \$28,054,626 were up \$261,182 from the 1984-85 total of \$27,793,444. Research proposals generated in 1985-86 totaled 716 -- up 100 from the 1984-85 total of 616. This indicates a marked increase in faculty research activity, which will begin to show in expenditure figures for the next fiscal year.

CLEMSON'S BASIC EDUCATION AND GENERAL BUDGET

	Estimated 1985-86	Approved 1986-87
<u>Expenses</u>		
Instruction	\$ 42,937,946	\$ 39,571,500
Research	3,723,232	7,712,714
University Extension and Public Service	863,526	939,741
Academic Support	13,282,459	13,926,569
Student Services	4,565,547	4,406,353
Institutional Support	10,450,244	11,590,072
Operation and Maintenance of Plant	10,352,601	12,288,441
Scholarships and Fellowships	52,650	105,000
Departmental Administration	6,332,921	6,440,584
TOTAL E&G EXPENSES	\$ 92,561,126	\$ 96,980,974

Revenue

State Appropriations		\$ 60,975,200
Student Fees		26,040,000
Short Courses and Seminars		4,217,745
Indirect Cost Recovery		1,582,000
Reimbursement -- Computer & Info. Sys. Devel. Services		4,523,412
Student Activities Income		480,470
Other Sources		1,762,147
Transfers to Student Organizations, Services, Activities		(635,000)
Transfers to Debt Retirement Accounts		(1,965,000)
TOTAL E&G REVENUE		\$ 96,980,974

CLEMSON'S PUBLIC SERVICE ACTIVITIES BUDGET

	Estimated 1985-86	Approved 1986-87
<u>Expenses</u>		
Agricultural Experiment Station	\$ 17,143,588	\$ 16,350,809
Cooperative Extension Service	23,134,821	24,269,262
Regulatory and Public Service	1,777,417	1,790,016
Livestock and Poultry Health	2,095,180	2,201,001
Forest and Recreation Resources	2,800,195	3,209,938
State Energy Program	226,969	127,868
Bioengineering Alliance		169,150
TOTAL PSA EXPENSES	\$ 47,178,170	\$ 48,118,044

Revenue

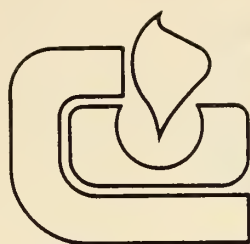
Federal Appropriations		\$ 11,075,698
State Appropriations		35,431,556
Institutional Revenue		1,610,790
TOTAL PSA REVENUE		\$ 48,118,044

AUXILIARY ENTERPRISES, RESTRICTED FUNDS, ETC.

	Estimated 1985-86	Approved 1986-87
<u>Expenses</u>		
Auxiliary Enterprises	\$ 32,401,434	\$ 31,942,244
Restricted Funds	18,778,024	20,660,959
Permanent Improvement Projects	10,954,700	12,733,600
Debt Service Requirements	5,132,850	5,005,983
TOTAL	\$ 67,267,008	\$ 70,342,786

Revenue

Auxiliary Enterprises Revenue		\$ 31,942,244
Restricted Funds Revenue		20,660,959
Proceeds from Bonds		12,733,600
Debt Service Funds		5,005,983
TOTAL		\$ 70,342,786



AUG 20 1986

Events

INFORMATION FOR THE FACULTY AND STAFF OF CLEMSON UNIVERSITY

This calendar is prepared up to a month in advance. Please send in writing to the MASTER CALENDAR EDITOR, 103 Fike Center, any campus event that should be listed. You may also want to call 656-4993 to check the UNIVERSITY MASTER CALENDAR for possible scheduling conflicts. (Call the number listed in each entry for more information.)

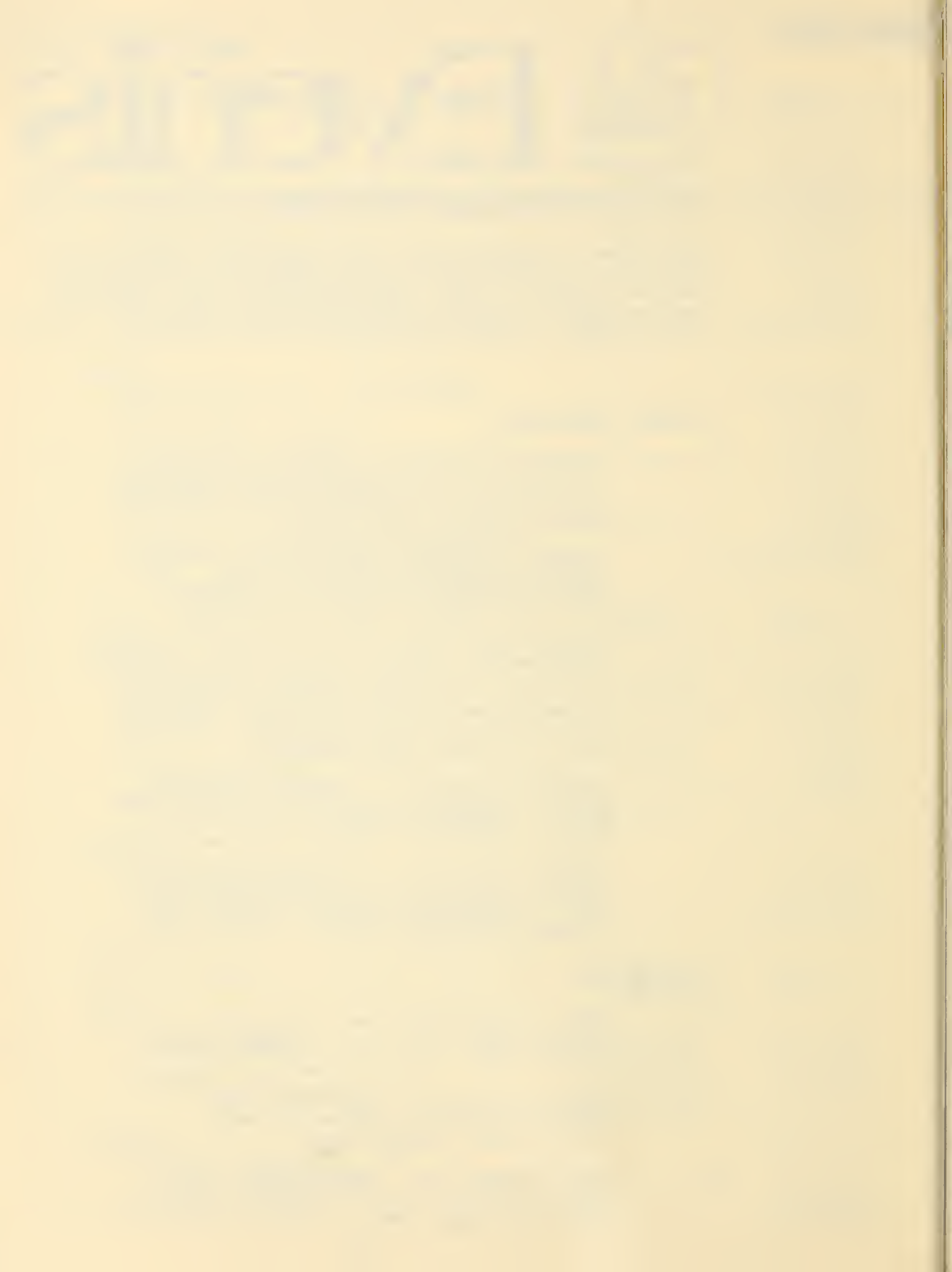
August 22-29

PLACEMENT ORIENTATIONS

- 26 Placement Orientation for industrial management and administrative management majors. Sponsored by Cooperative Education and Placement (656-2152), 4:40 p.m., Room 1, Sirrine Hall.
- 27 Placement Orientation for accounting, financial management, economics and textile majors. Sponsored by Cooperative Education and Placement (656-2152), 4:40 p.m., Room 1, Sirrine Hall.
- 28 Placement Orientation for civil and chemical engineering majors. Sponsored by Cooperative Education & Placement (656-2152), 4:30 p.m., 100 Earle Hall.
- 29 Placement Orientation for all majors. Sponsored by Cooperative Education and Placement (656-2152), 9:05 a.m., Student Senate Chambers.
- 29 Placement Orientation for ceramic engineering, mechanical engineering and engineering technology majors. Sponsored by Cooperative Education and Placement (656-2152), 12:00 p.m., 100 Earle Hall.
- 29 Placement Orientation for electrical engineering, computer engineering and all other engineering majors. Sponsored by Cooperative Education and Placement (656-2152), 4:30 p.m., 100 Earle Hall.

FILMS AND MUSIC

- 22 Movie: "Rocky Horror Show." Sponsored by University Union (656-5832), midnight, Outdoor Theatre, free.
- 24 Movie: "Monty Python and the Holy Grail." Sponsored by University Union (656-5832), 7 & 9:15 p.m., Y-theatre, free.
- 25 Special Events Film: "Rape Awareness." Sponsored by University Union (656-5832), 11:30 a.m.-12:30 p.m., Loggia, free.



- 26 Folk Singer: Rick Kelly. Sponsored by University Union (656-5832), 8:45 p.m., Edgars, \$1.
- 27 Movie: "The Last Wave." Sponsored by College of Liberal Arts and University Union (656-5832), 7:30 p.m., Y-Theatre, \$2.
- 28-29 Band: The Heartfixers. Sponsored by CDCC (656-5832), time to be announced, Edgars.
- 28-30 Movie: "Murphy's Romance." Sponsored by University Union (656-5832), 7 & 9:15 p.m., Y-Theatre, \$1.50.

OTHER EVENTS

- 22 College Bowl Triple Thriller. A game between students, faculty and administration. Sponsored by University Union (656-5832), 11 a.m.-2 p.m., Loggia, free.
- 23 Orange Carpet Day. For top high school seniors and parents. Sponsored by Student Alumni Council (656-2345), various locations.
- 23-24 Tubing Trip on Chattooga River. Sponsored by University Union (656-5832), 9 a.m.-3 p.m., \$6.50.
- 24 Honors Students' Picnic. Camp Hope, (656-4762).
- 24-Sept 1 Fraternity Rush. Sponsored by Interfraternity Council (656-2153).
- 27 Last day to register or add a class.
- 27 Union Drop In. Sponsored by University Union (656-5832), 11 a.m.-3 p.m., Loggia, free.
- 28-29 Seminar: "Pre-retirement Education" for Clemson employees within 15 years of retirement eligibility. Sponsored by Personnel Office (656-3367), time TBA, F-149 P&AS Building, spouses welcome, must register.
- 29 Weight control program. Sponsored by Nursing Center (656-3076). Classes will be held seven weeks, noon-1 p.m. Registration limited.
- Through August Exhibit: "The Performing Arts at Clemson." Sponsored by Special Collections (656-5176), main lobby of Cooper Library.
- Continuous YMCA-sponsored classes in women's and men's fitness, youth fitness, aerobics, exercise, Jazzercise, social dancing, Middle Eastern dance, swimming, gymnastics, aquacize, soccer camp, day camp (ages 5-13), lifesaving, and after-school day-care programs, (656-2460).



Newsletter

Aug. 27, 1986

Vol 26 No 2

INFORMATION FOR THE FACULTY AND STAFF OF CLEMSON UNIVERSITY

TOP SCHOOLS WILL PARTICIPATE IN PRESIDENTIAL INAUGURATION

Harvard, Yale, Princeton and Columbia are among the 150 universities and colleges planning to send representatives to the Sept. 1 inauguration of Max Lennon as Clemson's 11th president.

Foreign institutions planning to participate include the universities of London, Manchester, Birmingham, Leeds, Dundee, Oxford and Wales and the Indian Institute of Technology at Bombay.

Approximately 200 honor societies will be represented, including Phi Beta Kappa, Phi Kappa Phi, and the Royal Institute of British Architects.

The ceremony will begin at 10:30 a.m. in the Outdoor Theatre and will be followed by an old-fashioned barbecue luncheon on the library lawn.

Other guests include Gov. Dick Riley; Sens. Strom Thurmond and Ernest Hollings; Robert Clodius, president of the National Association of State Universities and Land Grant Colleges; Bob Childers, executive director of the Southern Association of Colleges and Schools; U.S. Rep. Butler Derrick; and Earle Morris, comptroller general of South Carolina.

President Lennon will talk about his goals for Clemson as it begins its second century of public service and education. No other speaker is scheduled.

All faculty and staff members, students, alumni and friends of the University are invited.

"We're hoping as many people

CLEMSON FACULTY TO LEAD ADVANCED PLACEMENT GRADING

Two Clemson faculty members have been selected to serve four-year terms as chief readers of Advanced Placement examinations.

The examinations are administered annually by the national Educational Testing Service.

Physics Prof. Ed Gettys and biology program Director Doris Helms will oversee the reading and grading of essay portions of Advanced Placement tests in their respective disciplines.

The tests are taken by thousands of high school honors students hoping to earn college-level credit and exempt some introductory courses.

Gettys and Helms will begin their terms July 1, 1987, after a year of preparation as chief reader-designates.

"It's unusual and very complimentary to the institution to have two chief readers in a single year," says John Kenelly, Alumni Professor of Mathematical Sciences.

Kenelly is overall director of the Advanced Placement reading.

"It's a credit to the commitment Clemson's faculty has to the AP program. Counting my position as director, this gives Clemson three of the top 21 faculty administrative posts in the AP reading," Kenelly says.

Gettys has been an AP reader for six years and was an exam leader this past year.

He also is a member of the test development committee that makes up the AP physics exam, and he was director of the AP Institute in physics for high school teachers held here this summer.

As chief reader in physics, Gettys will supervise about 20 readers.

Helms also has a history of involvement with the AP program.

She has served as a reader for six years and was leader of a sub-group of readers this past year.

She also has been involved with AP Institutes on campus.

She will direct about 80 readers.

This year's reading involved more than 10,000 physics tests and about 26,700 biology tests.

(Continued on page 2.)

(Continued from page 1.)

as possible will attend this joyous event for Clemson," said Vice Provost Jerry Reel, inauguration coordinator.

The inauguration is free, and the luncheon is \$5. Students with meal tickets for any University plan can use the tickets for the luncheon.

Persons planning to attend the luncheon should mail or take checks (made payable to Clemson University -- Inauguration) to Mary Allison, 209 Sikes Hall, Clemson University, Clemson, S.C., 29634-5105 by this Friday, Aug. 29.

Persons planning to attend the inauguration or the luncheon should bring lawn chairs or blankets to sit on.

In case of rain, the inauguration and the luncheon will be held in Littlejohn Coliseum.

NEW EMPLOYEES SHOULD ATTEND TELEPHONE TRAINING SESSION

A telephone training session will be held Sept. 4 for new members of the faculty and staff.

The hourlong session, which will cover use of the various features of the campus telephone system, will begin at 10:30 a.m. in the Senate Chambers of the University Union complex.

To register, call the University switchboard by dialing "0". For more information, call Zelda Rankin at 656-2441.

COMMUNITY LEADER RECEIVES SUSAN McWHORTER AWARD

Catherine Smith, who has served the Clemson community as mayor and Chamber of Commerce executive director, has received the Susan B. McWhorter Outstanding Woman Professional Award from the Association of Women Professionals.

The award is given in memory of Susan McWhorter, who was a member of the University's Personnel staff.

CONCERT SERIES TO FEATURE AWARD-WINNING PIANO SOLOIST

The winner of the world's most prestigious piano competition will get the University's 47th annual Concert Series off on a winning note.

Barry Douglas, piano soloist for the North Carolina Symphony Orchestra, will appear with the symphony Sept. 18 at 8 p.m. in Littlejohn Coliseum.

Douglas and the symphony will perform music by Mozart, Rachmaninoff and Richard Strauss under the direction of Clemson native Jackson Parkhurst.

Douglas recently won the Gold Medal in the Tchaikovsky Competition in Moscow -- the first non-Russian to win the prestigious event since Van Cliburn in 1958.

Rounding out the series will be appearances by The Masterplayers of Lugano, a 17-piece Swiss chamber orchestra, Oct. 14; The Chestnut Brass Company, five virtuoso brass players whose repertoire includes everything from Renaissance to jazz, Nov. 12; The Norman Luboff Choir, whose members will perform holiday music, Dec. 1; Delphin and Romaine, two pianists from the College of Charleston, Feb. 12; The Vienna Symphony Virtuosi, seven members of the Vienna Symphony Orchestra playing music from the 17th through the 20th centuries, March 2; and The Audubon String Quartet, a group of young performers who have garnered rave reviews from China, the White House and CBS national television, April 6.

All performances will begin at 8 p.m. and all, except for the North Carolina Symphony Orchestra, will be in Tillman Hall Auditorium.

Season tickets are \$20 for adults and \$10 for students and can be purchased from the office of the Clemson University Concert Series, Box 2325 University Station, Clemson, S.C. 29632.

Individual concert tickets are \$6 for adults and \$2 for non-Clemson students. Clemson students with activity cards may attend the concerts free of charge.



The Clemson University Newsletter is published for Albert Fleming, the Housing Office's Custodian of the Month for June, and for all members of the faculty and staff by the Division of University Relations.

University News Editor Jack A. McKenzie

We welcome your comments and suggestions. Call us at 656-4989 or write us at 103 Fike Center. DEADLINE is Aug. 27, noon for Sept. 3 issue.

FACULTY PROMOTIONS -- 1986

The Provost's Office has announced the following 53 faculty promotions for 1986.

To Full Professor (25 total)

Agricultural Sciences: W. Harold Allen (Ag Engr), D.C. Coston (Hort), John R. Diehl (Animal Sci), Barbara J. Griffin (Ag Engr), Lawrence W. Grimes (Experimental Statistics), Stephen E. Miller (Ag Econ & Rural Soc), Billy B. Rhodes (Hort) and Gary J. Wells (Ag Econ & Rural Soc).

Architecture: Evelyn Cecilia Voelker (Vis Arts & Hist).

Commerce & Industry: Dudley W. Blair (Econ), George Thomas Friedlob (Acct), William H. Hendrix (Mngmnt) and John T. Warner (Econ).

Engineering: Rudolf E. Elling (Civil Engr) and James A. Liburdy (Mech Engr).

Forest & Recreation Resources: David N. -S. Hon (For) and B. Allen Dunn (For).

Liberal Arts: Hallman B. Bryant (Eng), Kelly W. Crader (Soc), Ronald F. Lunsford (Eng), John W. Johnson (Hist), and Michael A. Morris (Po Sci).

Sciences: Robert E. Fennell (Math Sci), Doris R. Helms (Biology Prog) and Edward Pivorun (Biol Sci).

To Associate Professor (23 total)

Agricultural Sciences: Santi R. Bhowmik (Food Sci), William P. DuBose (Entmly), Elizabeth H. Hoyle (Home Ec), Edward C. Murdock (Agron & Soils), C. Parr Rosson III (Ag Econ & Rural Soc), and Ronald L. Thomas (Food Sci).

Commerce & Industry: L. Stephen Cash (Acct) and Clark Nardinelli (Econ).

Education: Alice M. Derr (Elem & Sec).

Engineering: Charng-Hsein Juang (Civil Engr), Dennis L. Powers (Bioengr) and Richard W. Rice (Chem Engr).

Forest & Recreation Resources: Charles A. Gresham (For).

Liberal Arts: Francis C. Dane (Psych), Michael G. Moran (Eng), James A. Miller (Hist), Dennis G. Paz (Hist), D. Kinly Sturkie (Soc), Stephen H. Wainscott (Po Sci), and J. David Woodard (Po Sci).

Sciences: R. Karl Dieter (Chem & Geol), David Goodwin Heckel (Biol Sci) and Miguel F. Larsen (Phys & Astr).

To Associate Librarian (2 total)

Peggy Cover (Reference Unit) and Maureen Harris (Public Documents).

To Assistant Professor (3 total)

Agricultural Sciences: M. Elaine Richardson (Dairy Sci) (Conditional upon completing Ph.D. requirements).

Forest & Recreation Resources: Jacqueline L. Haymond (For).

Sciences: Iris B. Ibrahim (Math Sci).

UNIVERSITY WELCOMES NEW EMPLOYEES

The University welcomes these new employees joining Clemson in recent weeks.

Accounting: Jerry E. Trapnell (Dept Head & Prof).

Administration & Planning: Rebecca D. Grant (Admin Spec B).

Admissions & Registration: Robert S. Barkley (Stu Serv Coord III), Virginia R. Childs (Adm Spec A), Lynn S. Cook (Admin Spec B) and Lori D. McCurry (Adm Spec A).

Agricultural Chemical Services: Demaris B. Ford (Ag Sci Asst II).

Agricultural Communications: Peter R. Pepinsky (Dir).

Agricultural Economics & Rural Sociology: Dexter C. Hawkins (Prog Anlst I).

Agricultural Engineering: Young J. Han (Asst Prof).

Agronomy & Soils: Bruce W. Pinkerton (Asst Prof) and Daniel J. Undersander (Assoc Prof).

Animal Science: Sarah B. Burns (Research Spec I), Leslie C. Hughes (Acct Tech I) and V. Jeanne Prunty (Admin Spec A).

Aquaculture: Scott A. Davis (Ag Sci Asst II).

Architecture: James F. Barker (Dean & Prof).

(Continued on page 4.)

(Continued from page 3.)

Army: David C. Buzzell (Gold Bar Recruiter Mil Sci).

Biological Sciences: Paul A. Giammatteo, (Res Assoc & Asst Prof) and David W. Tonkyn (Asst Prof).

Building Maintenance: Harry G. Gilstrap (Trades Wrkr), W. Floyd Jewell (Trades Craftsman), Johnny W. Vissage (Trades Craftsman) and Johnny J. Wheaton (Trades Helper).

Business & Finance: David R. Larson (VP)

Chemistry & Geology: Richard K. Marcus (Asst Prof).

Civil Engineering: Janice C. Brock (Cler Spec C).

Coastal Experiment Station: Robert J. Dufault (Asst Prof Hort).

Computer Center: Charles B. Collins, (Data Control Clerk) and Gregory R. Mattison (Data Coord I).

Computer Science: Sue N. Isbell (Word Proc Opr) and Robert R. Little (Assoc Prof).

Continuing Education: Connie M. Ormes, (Admin Spec B).

Custodial Services: James F. Abraham (Cust Wrkr I), Benjamin Figueras (Cust Wrkr I), Irene G. Leroy (Custo Wrkr I), Ed W. Malone (Cust Wrkr I), Bonnie J. Perry (Cust Wrkr I) and Clyde W. Posey (Custo Wrkr I).

Dairy Science: Kathleen F. Smith (Word Proc Opr).

Division of Administrative Programming Services: David M. Nash Jr. (Cmpt Prg III).

Division of Information Systems Development: Sylvia A. Able (Prog Anlst I), Michael E. Tellup (Prog Anlst I) and Jean F. Wilson, (Prog Anlst II).

Dormitories: Judith A. Alexander (Cust Wrkr I).

Educational Services & Placement: Linda B. Reardon (Media Rescs Coord).

Electrical & Computer Engineering: Jim T. Long (Prof).

Elementary & Secondary Education: Donna L. Connally (Cler Spec) and M. Sue Michael (Admin Spec A).

Experimental Statistics: Cherylene K.

Amidon (Data Coordinator III).

Financial Management: Linda H. Henderson (Admin Spec A).

Fire Department: William E. Daniel (Firefighter I).

Football: William J. D'Andrea (Asst Football Coach).

Forestry: Vicky F. Freeman (Admin Spec A), Julia C. Price (Ag Aide III) and John H. Syme (Lect).

Grounds: Ansel C. Stone, (Veh Opr II).

Home Economics-County: Mary E. Jennings, (Admin Spec A).

Home Economics-State: Joan E. Pinion, (Admin Spec A).

Horticulture: Judith F. White (Ag Sci Assoc I).

Industrial Education: Roberta L. Bauer (Vstg Instr).

Library: Victoria B. Hamilton, (Lib Tech Asst II).

Livestock & Poultry Health: Eddie Gray (Meat Insptr I).

Mathematical Sciences: Robert S. Cantrell (Adj Asst Prof).

Nursing: Mary Ellen B. Hatfield (Adj Asst Prof), Dianne B. Rice (Admin Spec A) and Teresa L. Turbeville (Word Proc Opr).

Personnel Division: Harriet B. White (Cler Spec B).

Physics: Margaret W. Fox (Admin Spec A); K. Viswanatha Reddy, (Vstg Asst Prof) and Yvette M. Walters (Word Proc Opr).

Poultry Science: Thomas R. Scott (Ass Prof).

Service & Support Facility (Purchasing): Eleanor C. Kelley (Admin Spec A).

Student Health Center: Minnie Ruth Crawford (Custod Wrkr I) and Lake H. James Jr. (Lect).

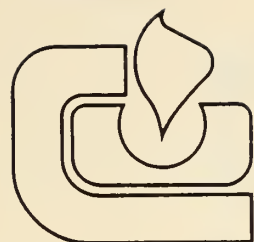
Student Life, Frances K. Finch, (Admin Spec A).

University Research: G. Jay Gogue (Assoc Dir Un Res).

University Union: Patricia M. Skelton (Admin Spec A).

Volleyball: Linda E. White (Coach).

AUG 25 1986



Events

INFORMATION FOR THE FACULTY AND STAFF OF CLEMSON UNIVERSITY

This calendar is prepared up to a month in advance. Please send in writing to the MASTER CALENDAR EDITOR, 103 Fike Center, any campus event that should be listed. You may also want to call 656-4993 to check the UNIVERSITY MASTER CALENDAR for possible scheduling conflicts. (Call the number listed in each entry for more information.)

August 29-September 5

PLACEMENT ORIENTATIONS

August

- 29 Placement Orientation for all majors. Sponsored by Cooperative Education & Placement (656-2152), 9:05 a.m., Student Senate Chambers.
- 29 Placement Orientation for ceramic engineering, mechanical engineering and engineering technology majors. Sponsored by Cooperative Education and Placement (656-2152), noon, 100 Earle Hall.
- 29 Placement Orientation for electrical engineering, computer engineering and all other engineering majors. Sponsored by Cooperative Education and Placement (656-2152), 4:30 p.m., 100 Earle Hall.

September

- 1 Placement Orientation for all majors. Sponsored by Cooperative Education & Placement (656-2152), 10:10 a.m. & 3:35 p.m., Student Senate Chambers.
- 2 Placement Orientation for all majors. Sponsored by Cooperative Education & Placement (656-2152), 11 a.m., Student Senate Chambers.

FILMS AND MUSIC

August

- 29 Band: The Heartfixers. Sponsored by CDCC (656-5832), time to be announced, Edgar's.
- 29-30 Movie: "Murphy's Romance." Sponsored by University Union (656-5832), 7 & 9:15 p.m., Y-Theatre, \$1.50.
- 31 Movie: "Ladyhawke." Sponsored by University Union (656-5832), 7 & 9:15 p.m., Y-Theatre, free with University I.D.



September

- 1 Movie: "Blues Brothers." Sponsored by University Union (656-5832), 8 p.m., Y-Theatre, \$1.
- 2 Video: "Animal House." Sponsored by University Union (656-5832), 8 p.m., Edgar's.
- 3 Movie: "Crimes of Passion." Sponsored by College of Liberal Arts and University Union (656-5832), 7:30 p.m., Y-Theatre, \$2.
- 4-5 Band: Will and the Bushmen. Sponsored by University Union (656-5832), 9 p.m., Edgar's, \$1.
- 4-6 Movie: "Jagged Edge." Sponsored by University Union (656-5832), 7 & 9:45 p.m., Y-Theatre, \$1.50.

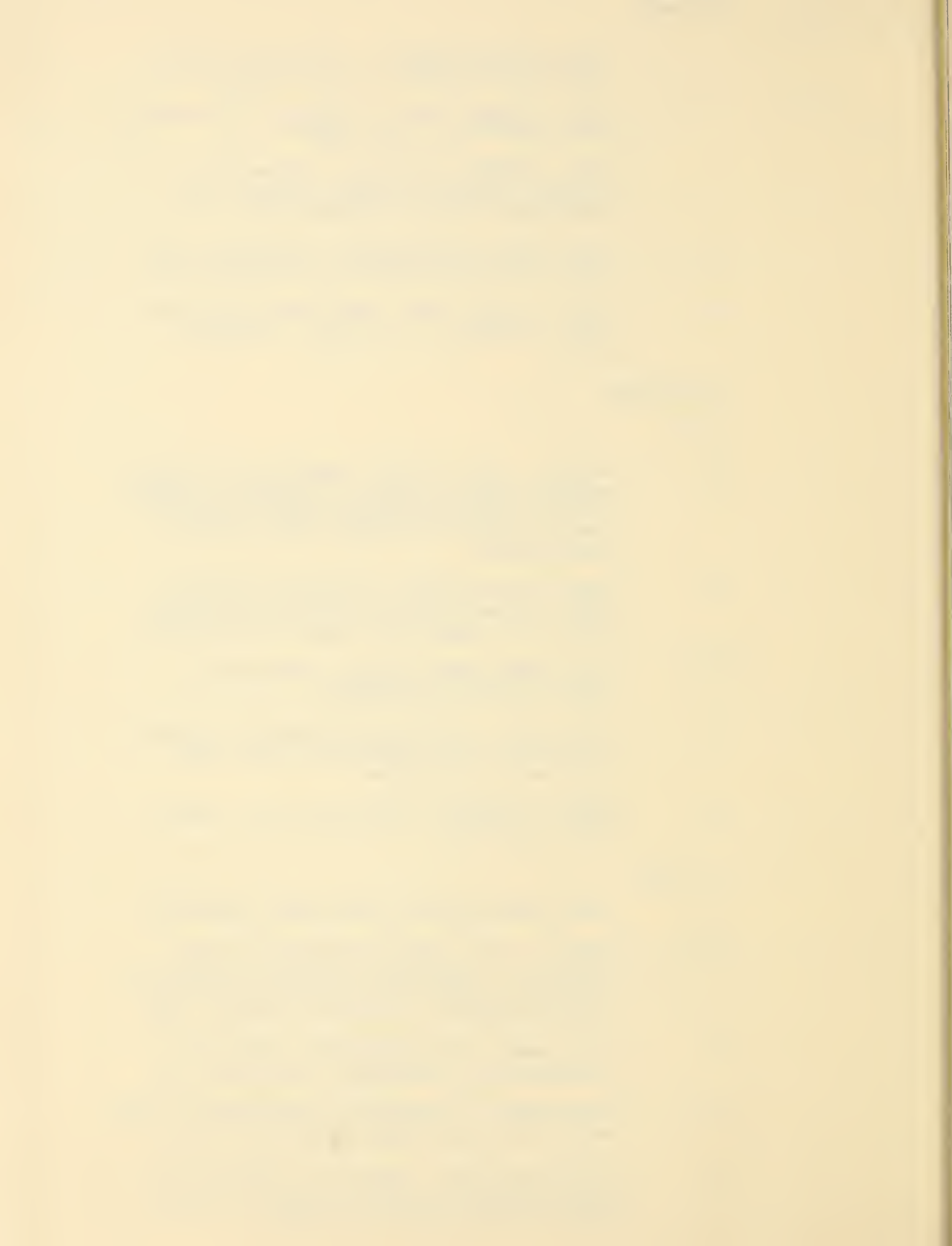
OTHER EVENTS

August

- 29 Seminar: "Pre-retirement Education" for Clemson employees within 15 years of retirement eligibility. Sponsored by Personnel Office (656-3367), time TBA, Fl49 P&A Building, spouses welcome, must register.
- 29 Weight control program. Sponsored by Nursing Center. Classes will be held for seven weeks, noon-1 p.m. Registration limited, call 656-3076.
- 29-31 Black Alumni/Student Weekend. Sponsored by Alumni Association (656-2345).
- 30 Travel Trip: Six Flags Over Georgia. Sponsored by University Union (656-5832), \$18 includes ticket and transportation.
- 31 Soccer: College of Charleston, 2 p.m., soccer field. (656-2101).

September

- 1-12 Submit applications for room change (656-2295).
- 1-22 Exhibit: "Bryon McKeeby Retrospective Print Exhibition." Sponsored by College of Architecture (656-3081), 9 a.m.-4:30 p.m. weekdays, 2-5 p.m. Sundays, Rudolph E. Lee Gallery, Lee Hall, free.
- 2 Short Course: Cake Decorating. Sponsored by University Union (656-5832), 7-8:30 p.m., \$15.
- 2 Short Course: Introduction to Backpacking. Sponsored by University Union (656-5832), 7-9 p.m.
- 3 Organizations Day. Sponsored by Student Government (656-2195), 1-4 p.m., in front of Calhoun Mansion, free, (Sept 10, rain date).



- 3 Career Fair '86 for Commerce and Industry students to meet potential employers. Sponsored by Delta Sigma Pi business fraternity (654-5141), 9 a.m.-3:30 p.m., Palmetto Ballroom, free.
- 5 University Honors Committee meeting. 2 p.m., 102D Tillman.
- Through August Exhibit: "The Performing Arts at Clemson." Sponsored by Special Collections (656-5176), main lobby of Cooper Library.
- Through Oct. 15 Exhibit: "Early Student Life at Clemson." Sponsored by Special Collections (656-5176), main lobby of Cooper Library.
- Continuous YMCA-sponsored classes in women's and men's fitness, youth fitness, aerobics, exercise, Jazzercise, social dancing, Middle Eastern dance, swimming, gymnastics, aquacize, soccer camp, day camp (ages 5-13), lifesaving, and after-school day-care programs, (656-2460).



Newsletter

SEP 4 1986

Sept. 3, 1986
Vol 26 No 3

INFORMATION FOR THE FACULTY AND STAFF OF CLEMSON UNIVERSITY

INAUGURATION SET FOR SATURDAY

The inauguration of Max Lennon as the 11th president of Clemson University will be this Saturday (Sept. 6) at 10:30 a.m. in the Outdoor Theater (Littlejohn Coliseum, in case of rain).

All faculty and staff members, students, alumni, neighbors and friends of the University are invited to attend.

A barbecue luncheon on the library lawn will follow the ceremony.

Persons planning to attend the events should bring lawn chairs or blankets to sit on.

STAFF COMMISSION ANNOUNCES COMMITTEE APPOINTMENTS

The Commission on Classified Staff Affairs has appointed the following committees for 1986-87:

-- Executive Committee (considers and reviews items and refers them to appropriate committees): Pat Padgett, chair; Mickey Lewis, vice chair; Ron Herrin and Ray Thompson, ex officio members.

-- Communications Committee creates a forum for two-way communication between the University administration and staff: Gail Jameson, chair; Martin Fowler; Hank Goodman.

-- Policy Committee (formulates and recommends University policies and procedures relating to staff employees): Paul Gable, chair; Tom Kasperek; Judy McNinch.

-- Welfare Committee (studies and develops policies relating to

(Continued on page 2.)

RESEARCH PRESENTATIONS HIGHLIGHT GENERAL FACULTY MEETING

Academic and administrative units should consider appointing task forces to identify cost-cutting possibilities and to develop "standards of excellence," President Max Lennon told the faculty Aug. 20.

Lennon spoke in Tillman Hall auditorium at the semester-opening general faculty meeting, which included presentations on three University research projects.

(Continued on page 2.)



MEMBERS OF THE COMMISSION ON CLASSIFIED STAFF AFFAIRS for 1986-87 are, from left: Front row, Gail Jameson, agronomy; Pat Seitz, music; Second row, Judy McNinch, Extension; Pat Padgett, nursing; Mary Ann Eddy, Energy Research and Development Center; Back row, Ron Herrin, Payroll and Employee Benefits; Mickey Lewis, Student Life; Paul Gable, business and finance; Hank Goodman, Physical Plant; Martin Fowler, biological sciences; and Ray Thompson, Personnel.

(Continued from page 1.)

benefits, staff development, and job and supervisory skills): Pat Seitz, chair; Mary Ann Eddy; Gary McCombs.

During the coming year, the Staff Commission will be working on topics ranging from pay increases to on-campus day-care facilities to funding for staff research projects.

The Staff Commission meets the second Tuesday of each month at 1:15 p.m. in Room 407 of the Nursing Building.

Visitors are welcome to attend the meetings.

PHI KAPPA PHI LOOKING FOR MEMBERS

The Clemson chapter of The Honor Society of Phi Kappa Phi is trying to get in touch with all society members in the area.

If you are a member of Phi Kappa Phi -- whether you were initiated here or any some other institution -- and you have not received any correspondence from the local chapter during the past year, you should contact chapter secretary Jack McCormac at 316 Lowry Hall (656-5710).

WOMEN'S NETWORK ANNOUNCES 1986-87 STEERING COMMITTEE

The Women in Higher Education Network has announced its steering committee for 1986-87.

The committee members are Sybil Coward from Budgets and Planning, Pat Edmunds from Publications and Graphics, Martha Lyles from the library, Fran Massey from Personnel, Lynn McClain from Plant Pest Regulatory Services, and Cairen Withington from the College of Engineering.

WHEN will hold its annual business meeting at noon Sept. 10 at the Golden Corral restaurant.

(Continued from page 1.)

Dwight Camper, a professor of plant pathology and physiology and of botany, reported on research in biotechnology; chemistry department head Darryl Desmarteau spoke on research in flurochemistry; and ceramic engineering Prof. Cliff Fain talked about advanced engineering fibers research.

The projects, Lennon said, are examples of the kinds of research efforts that fit well into the University's emerging long-range plan for research and public service.

That blueprint, called the "Second Century Plan," identifies five emphasis areas: agriculture, engineering and basic science, marketing and management, quality of life, and textiles.

Lennon expressed "a sincere thank you" to the faculty for working on the plan, which he said will help determine "where our academic objectives should take us."

The plan, he said, "will be one of our major tools to market Clemson to the people of South Carolina and other areas and one of our major fund-raising tools."

He said Clemson, the University of South Carolina and the Medical University of South Carolina are cooperating to develop research plans that complement and support each other.

The three institutions will work together, he said, in seeking state funding for the plans.

He said Clemson is also working closely with industry to develop "joint ventures with an emphasis on education" that will help fund research and meet the state's industrial needs.

He said engineering Prof. Bob Gilliland and Clemson alumnus Emory Orahood, retired chief executive of Reliance Electric Co., are spearheading that effort.

Orahood is chairman of the President's Advisory Council, 30 top business and public leaders,

(Continued on page 3.)



University News Editor Jack A. McKenzie

The Clemson University Newsletter is published for Pete Pepinsky, the new director of Agricultural Communications, and for all members of the faculty and staff by the Division of University Relations.

We welcome your comments and suggestions. Call us at 656-4989 or write us at 103 Fike Center. DEADLINE is Sept. 3, noon for Sept. 10 issue.

ENROLLMENT FIGURES CORRECTION

Enrollment in off-campus programs was inadvertently counted twice in the "Total Enrollment" figures reported in the Aug. 20 Newsletter -- as part of the undergraduate and graduate figures and as a separate category.

The correct "Total Enrollment" figure for fall 1985 is 12,893. The correct estimate for fall 1986 is 13,082.

SOCCKER MATCHES FREE FOR EMPLOYEES

University employees and their immediate family members may attend regular season home soccer matches for free, says Rick Brewer of the Athletic Ticket Office. Admission is free, he says, upon presentation of a University I.D.

Watch the Newsletter's weekly events calendar for dates and times of matches.

Coming up are home matches with USC-Spartanburg (Sept. 10 at 8 p.m.), North Carolina (Sept. 14 at 2 p.m.) and Wright State (Sept. 16 at 8 p.m.).

DEPARTMENTAL NOTES

AGRICULTURAL ENGINEERING

T.H. Garner (Prof), J.E. Hood (Prof), J.A. Collier (Assoc Prof) and J.B. Dodd (Asst Prof) were voted outstanding teachers in the College of Agricultural Sciences or 1985-86.

D. Giles (Res Asst) was named 1986 Paper Award winner by the American Society of Agricultural Engineers for his paper, "Space Changes Deposition of Pesticide Sprays Onto Cylindrical Target Arrays," published in Transactions of the ASAE.

C.V. Privette (Assoc Prof) received the Horticulture Award from the S.C. County Agents Association in recognition of his valuable assistance to programs dealing with irrigation of horticultural crops.

Eleven papers describing research activities were presented at the Annual Summer Meeting of the American Society of Agricultural Engineers at California Polytechnic State University, San Luis Obispo, Calif., June 29-July 2. Here are the authors and titles:

-- F. Armstrong
(Grad Asst), D. Rhodes

(Continued from page 2.)

primarily from South Carolina, who have endorsed the Second Century concept and are advising the University on the plan's development.

Lennon said Clemson's 1987-88 budget request to the state Commission on Higher Education includes a \$3.3-million increase, an amount he called "inadequate."

"We must become better students of cost control," he said.

He suggested that each administrative unit appoint an internal task force on cost containment and develop incentives for money-saving ideas. Plus, he said, various consulting firms have volunteered to help the University find ways to cut costs, and he encouraged units to consider accepting such help.

"And remember," he said, "in universities, money follows students, and more money follows quality students."

Lennon said there is an "alarming trend" evident in the number of top S.C. high school students who apply to Clemson but end up going to schools in the North and Northeast. He said Clemson must become more aggressive in recruiting these students to keep them in South Carolina.

He also recommended that each administrative unit develop an internal task force to define a "standard of excellence" for the unit. He said units should study their counterparts at other colleges and universities to determine where the best programs and departments are, identify what gives those programs their quality, and then consider how to apply that information to Clemson.

(Grad Asst) and J.T. Ligon (Prof); "Root Distribution of Non-Irrigated and Trickle-Irrigated Peach Trees."

-- Armstrong and Prof. Ligon; "Moisture Uptake Patterns of Non-Irrigated and Trickle-Irrigated Peach Roots."

-- Prof. Collier; "Aquacultural Research Facility: Clemson University."

-- M.J. Delwiche (Former Asst Prof) and R.A. Baumgardner (Prof Hort); "Peach Maturity Determination by Ground Color-Grader Performance."

-- Prof. Delwiche;

(Continued on page 4.)

(Continued from page 3.)

"Theory of Firmness Sorting [of Peaches] by Impact Forces."

-- Prof. Dodd, A. Hale (Vstg Instr) and Prof. Garner; "Control System for a Variable Three-Point Hitch."

-- J.L. Dunlap (Instrumentation Supv) and F.A. Payne (Former Assoc Prof); "Microcomputer Control of a Two-State Combuster."

-- D.K. Giles (Res Asst) and Prof. Delwiche; "Electronic Sensing of Plant Canopy Volume."

-- I. Israeli (Former Grad Asst) and J.R. Lambert (Prof); "Evaluation and Calibration of SIMAIZ to South Carolina Conditions, and Irrigation Scheduling of Moveable Irrigation Systems."

-- Prof. Privette; "Corrosive Groundwater Effect on Center Pivots."

BUILDING SCIENCE

R.W. Liska (Assoc Prof) and S. Schuette (Assoc Prof) attended the Annual Meeting of the American Council for Constructive Education in Denver, Colo., July 24-25.

At that meeting, Prof. Liska was the instructor for "How to Make an Accreditation Visit," a training session required of all potential Accreditation Visiting Team members.

Prof. Schuette was on the Visiting Team for the American Council for Constructive Education to the Construction Management Program at California State University at Chico, Calif., May 12-13.

CHEMICAL ENGINEERING

D.D. Edie (Prof) and C.C. Fain (Prof of Cer Engr) presented "Melt Spun Non-circular Fibers From Mesophase Pitch," which was published in the proceedings of the Carbon '86 international carbon conference at Baden-Baden, West Germany, July 1.

Prof. Edie was awarded a two-year \$50,000 equipment grant from the Eastman Educational Foundation for the purchase of a Rheometrics Mechanical Spectrometer for research in polymers and composites.

J.M. Haile (Prof) and J.P. O'Connell (Prof Chem Engr Univ Fla) presented "Molecular Dynamics Simulations of Chain Structure in Model Micelles" at the 60th Colloid and Surface Science Symposium, Atlanta, Ga., June 17.

Prof. Haile and E. Erciso (Assoc Prof Chem Universidad Complutense, Madrid) presented "Effects of Density, Temperature and Solvent on the Conformational Structure of Liquid Butane" at the 9th IUPAC Conference on Chemical Thermodynamics, Lisbon, Portugal, July 14.

CHEMISTRY

R.A. Abramovitch (Prof), A.C. Siani (Grad Stu), M.G. Nascimento and J. Miller (Cooperating Scientists, State Univ of Campinas, Brazil) presented "Characterization of Intermediates Obtained from Salts of N-Arylamino pyridiniums" at the 38th Annual Meeting of the Brazilian Society

for the Progress of Science in Curitiba, Brazil, July 9.

K. Dill (Assoc Prof) was invited to review NMR proposals submitted to the instrumentation program of the National Science Foundation and to review manuscripts submitted for publication to The Journal of Carbohydrate Research.

Prof. Dill presented a seminar, "Spin Echo, One Dimensional and Two Dimensional NMR Studies of Phenylldichloroarsine Binding in Red Blood Cells," at the Letterman Army Institute of Research, San Francisco, Calif., June 23.

Prof. Dill (Assoc Prof) and R.D. Carter (Grad Stu) published " Cr^{3+} --Cis-inositol: A Possible Precursor for New Contrasting Agents Used in Magnetic Resonance Imaging" in Inorganica Chimica Acta, 125, (1986), L9-L11.

Prof. Dill, Carter, A.A. Pavia (Prof Centre Universitaire d'Avignon, France) and J.M. Lacombe (Res Assoc) published "Structural Studies of Neuropeptides Composed of L-Asp and D-Glu" in The Journal of Protein Chemistry, 4, (1985), 363-373.

Prof. Dill, Carter, Prof. Pavia, and Lacombe also published "Possible Role of the Carbohydrate Residues on the Structure of the N-Terminus of Glycophorin A^M" in Carbohydrate Research, 152, (1986), 217-228.

Prof. Dill, E.L. McGown (Chief, Biophysi-

(Continued on page 5.)



RYAN AMACHER, dean of the College of Commerce and industry, was the University's representative this summer to the Army's ROTC Advanced Camp at Fort Bragg, N.C. He visited Clemson cadets and got firsthand experience in some of their training. At left, Amacher, who is second from left, prepares for takeoff in an Army "Chinook" helicopter. The photo below shows him leaving the helicopter after the flight.



(Continued from page 4.)

cal Chemistry Research Division, Letterman Army Institute of Research, San Francisco) and R.J. O'Connor (Res Scientist, LAIR) published a JSARMDC-LAIR Institute Report, "Interactions of Arsenicals with Biological Molecules."

Prof. Dill and Carter published an invited review article, ¹³C-NMR Spectral Studies of the N-Terminal Portion of Glycophorins," in Progress in Nuclear Magnetic Resonance Spectroscopy, 18, (1986), 307-326.

J.W. Huffman (Prof) and P.C. Raveendranath (Former Grad Stu) published "Stereoselective Total Synthesis of (+)-

Isocelorbicol" in the Journal of Organic Chemistry, 51, (1986), 2148.

A.R. Pinder (Calhoun Prof) published "Pyrrolidine, Piperidine and Pyridine Alkaloids" in Natural Product Reports, 3, 1986, 171-180.

CIVIL ENGINEERING

S.C. Anand (Prof) and M.A. Rahman (Ph.D. Stu) published "Stresses in Composite Masonry Shear Walls," in the Proceedings of the 4th Canadian Masonry Symposium at the University of New Brunswick, Fredericton, Canada, June 2-4. Prof. Anand presented the paper at this symposium.

Prof. Anand presented "Some Experiences

in Structural Analysis Using FORTRAN on IBM-PCs" at the First Canadian Conference on Computer Applications in Civil Engineering/Micro-Computers at McMaster University, Hamilton, Canada, May 20-23. He also chaired a session, "CAD/TIMBER."

COMPUTER SCIENCE

A.J. Turner (Prof & Hd) was named Vice-Chair of the Computer Science Accreditation Commission.

ELECTRICAL & COMPUTER ENGINEERING

C.M. Butler (Prof) presented "Scattering of Transverse Magnetic Illumination by a Narrow Conducting Strip Located

(Continued on page 6.)

(Continued from page 5.)

at the Interface Between Two Semi-Infinite Half-Spaces" at the URSI 1986 International Electromagnetic Theory Symposium, Budapest, Hungary, Aug. 22-31.

J.W. Lathrop (Prof) presented "Accelerated Stress Testing of a-Si:H Solar Cells" at the Second International Photovoltaic Science and Engineering Conference, Peking, China, Aug. 11-Sept. 1.

J.Y.S. Luh (McQueen-Quattlebaum Prof) presented three papers, "Response to Impact Between Coordinating Robots," "Computation and Simulation in Robotics -- An Overview and Comparison," and "Collision Avoidance Between 3D Moving Objects and Industrial Robot," in Osaka and Tokyo, Japan, in July.

E.B. Makram (Asst Prof) presented a discussion, "The Role of Computers and Microprocessors in Power Engineering Education," at the IEEE Power Summer Meeting, Mexico City, Mexico, July 20-25.

R. Schalkoff (Assoc Prof) published "Automated Reasoning About Image Motion Using a Rule-Based Deduction System" in Image and Vision Computing, 4, No.2 (May 1986).

ENTOMOLOGY

The following papers were presented at the Joint Meeting of the South Carolina and Georgia Entomological Societies, Savannah, Ga., March 25-26.

-- "The Use of Syn-

thesiomyia nudiseta (van der Wulp) [DIPTERA: Muscidae] to Estimate the Time of Death of a Human Corpse Buried Under a House" by T.R. Adkins (Prof Emeritus).

-- "Sugar-feeding Behavior of Adult Heliothis zea (Lepidoptera: Noctuidae) by P.H. Adler (Asst Prof).

-- "Susceptibility of the Pecan Leaf Scorch Mite to Thuringiensin" by D.R. Alverson (Assoc Prof) and J.A. Hornby (Grad Res Asst).

-- "Sensory Modalities and Substrate Preference for Oothecal Deposition by Supella longipalpa (F.), the Brownbanded Cockroach (Dictyoptera: Blattellidae)" by E.P. Benson (Grad Res Asst).

-- "Macrophotographic Techniques" by J.R. Brushwein (Grad Stu).

-- "Field Incidence and Host Range of an Ascovirus of Heliothis spp." by G.R. Carner (Prof).

-- "The Impact of Pathogens of Heliothis Populations in Early and Late Planted Soybeans" by Prof. Carner, S.G. Turnipseed (Prof) and B. Cotterill (Grad Res Asst).

-- "Control of Hessian Fly With At-Planning Insecticide Treatment" by J.W. Chapin (Assoc Prof).

-- "Recent Advances in 35mm Macrophotographic Equipment" by J.D. Culin (Asst Prof) and Brushwein.

-- "Effects of Low Level Insecticides on the Development of Microplitis demolitor in Heliothis zea Feeding on Cotton" by Prof. Culin and W.B. DuBose (Assoc Prof).

-- "Intrinsic Interactions Between Two Parasitoids of Pseudoplusia includens (Walker)" by Prof. Culin and J.A. Johnson (Ent I).

-- "The Location of Predatory Arthropods and Lepidopterous Larvae in Soybean Fields -- Do They Exhibit an Edge Effect?" by Prof. Culin and D.E. Scotten (Grad Res Asst).

-- "Effect of Interactions of Fundal, Temik, and Cotton Variety on Thrips Damage and Yield" by J.A. DuRant (Prof).

-- "The Impact of Red Imported Fire Ant Predation on the Number of Emerging Horn Fly Adults" by J.B. Kissam (Prof) and L.A. Lemke (Grad Res Asst).

-- "Evaluation of ABG-6162 Usage for Larval Control of the House Fly Musca domestica L. in Caged Layer Poultry Houses" by Prof. Kissam and M.P. Nolan III (Prin Grad Ext Asst).

-- "Evolution of Feeding, Case- and Retreat-making, and Ovipositing Behavior in Trichoptera" by J.C. Morse (Prof) and J.S. Weaver III (Curator of Insect Museum at Univ of New Hampshire).

-- "A Biological Approach to Heliothis Management in Cotton" by M. Roof (Assoc Prof) and R. Jones (USDA-APHIS).

-- "Sequential Sampling of Planthoppers, Leafhoppers, and Predators in Rice" by M. Shepard (Prof), E.R. Ferrer (International Rice Research Institute,

(Continued on page 7.)

(Continued from page 6.)

Philippines), P.E. Kenmore (I R R I) and J.P. Sumangil (Division of Crop Protection, Ministry of Agriculture and Food, Philippines).

-- "Potential for a Biological Approach to Management of Heliothis spp. in Cotton in the Absence of Boll Weevil" by M.J. Sullivan (Prof) and Prof. Turnipseed.

-- "Extrastructural Habitats of the Formosan Subterranean Termite, Coptotermes formosanus Shiraki in Charleston, South Carolina" by P.A. Zungoli (Asst Prof) and D.M Chambers (Grad Res Asst).

EXTENSION HOME ECONOMICS

Two papers were presented at the Society for Nutrition Education meeting in Washington, D.C., July 6-9:

-- "Healthy Mothers, Healthy Babies: Networking Nutrition and Health Resources for Healthier Families," by E.H. Hoyle (Assoc Prof).

-- "Pooling limited resources for Effective Nutrition Education," a description of the Better Eating for Better Health project, by R.J. Davis (Prof).

FERTILIZER AND PESTICIDE CONTROL

V.H. McCaskill (Hd) as program chairman at the 44th Annual Meeting of the Association of Southern Feed, Fertilizer and Pesticide Control Officials in Savannah, Ga., June 14-17. Prof. McCaskill was also elected vice president of the Association.

FIRE DEPARTMENT

J. Abraham (Fire Chief & Adj Instr) presented "Combination Management of the Paid and Volunteer Fire Department" at the quarterly meeting of the S.C. State Fire Chiefs' Meeting, Columbia, May 31.

HISTORY

J.L. Arbena (Prof) presented "The Separation of Panama as a Constitutional Crisis" at the third annual meeting of the Association of North American Colombianists, Bogota, Colombia, June 25-29.

Prof. Arbena discussed the same topic July 7 at a seminar jointly sponsored by the Bank of the Republic and the Antioquia Foundation for Social Studies in Medellin, Colombia.

J.R. Wunder (Prof & Head) reviewed Continents in Collision: The Impact of Europe on North American Indian Societies by Robert A. Hecht, and Continents in Collision: Documents edited by Robert A. Hecht in American Indian Quarterly, (Fall 1985), 441-442.

MANAGEMENT

M.J. Stahl (Prof and Hd) published "When Selecting and Training Managers Remember: Power Motivates" in Research Management, 29, (July-Aug., 1986).

NURSING

The Nursing Graduate Program received a \$31,948 grant from the Division of Nursing USPHS for 1986-87 to support full-time graduate

study by providing master's students with professional nurse traineeships to defray the cost of tuition and other eligible fees. The funds allow some students who could not otherwise do so to study full-time in nursing.

S.E. Barger (Assoc Prof, Dir Nurs Cntr) published "Personnel Issues of Academic Nurse-Managed Centers: The Pitfalls and the Potential" in Nurse Educator, 9, No. 3 (May/June 1986). She published "Academic Nurse-Managed Centers: Issues of Implementation" in Family and Community Health, 9, No. 1 (May 1986).

PARKS, RECREATION AND TOURISM MANAGEMENT

R.L. Howell (Assoc Prof) published "Proposed Standards for NRPA Accreditation of Travel and Tourism Curricula" in the SPREE Annual on Education, 1, (June 1986), 133-141.

Prof. Howell also has been named director of the new Recreation, Travel and Tourism Institute.

UNIVERSITY UNION

M. Arnold (Asst Prog Dir) presented three sessions, "Concert Negotiation," "Day of Show Promotion" and "The Use of a Promoter," at the National Association for Campus Activities Contemporary Concert Workshop, Vanderbilt University, Nashville, Tenn., June 25-28.

R. Laffitte (Asst Dir for Programs/Services) was workshop coordinator.



THE LEE HALL COURTYARD, above, was transformed into a profusion of color, cardboard and geometric patterns Aug. 22, during a "get-acquainted" cookout held for architecture faculty, staff and students and their new dean, Jim Barker, who joined Clemson in July. At right, Barker talks with students Debbie Noles, left, Beth Lee, right, and Danielle Dion.

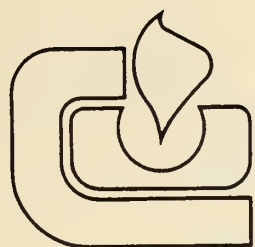


RELATIVES OF THE LATE DEAN OF EDUCATION HAROLD LANDRITH chat with Mary Kathryn Wofford of Hartsville, the first Landrith Scholarship recipient. Above, left to right, are Horace Landrith, brother, of Seneca; Wofford; Horace's wife, Shirley, of Seneca; and Hazel Landrith Mason, sister, and her husband, James, of Summerville. Landrith was dean from 1965 to 1982.

RELATIVES OF THE LATE DEAN H.W. WASHINGTON SR. and the first Washington Scholarship recipient, Sharon Louise Hughes of Sumter, stand beside a picture of Washington, dean of vocational education and the School of Education from 1933 to 1955. Below, left to right, are daughters Anne Hagood of Barnwell and Mary King of Mauldin, Hughes, and Mr. and Mrs. Lovett Washington of Honea Path. Lovett is the last dean's brother.



SEP 3 1986



Events

INFORMATION FOR THE FACULTY AND STAFF OF CLEMSON UNIVERSITY

This calendar is prepared up to a month in advance. Please send in writing to the MASTER CALENDAR EDITOR, 103 Fike Center, any campus event that should be listed. You may also want to call 656-4993 to check the UNIVERSITY MASTER CALENDAR for possible scheduling conflicts. (Call the number listed in each entry for more information.)

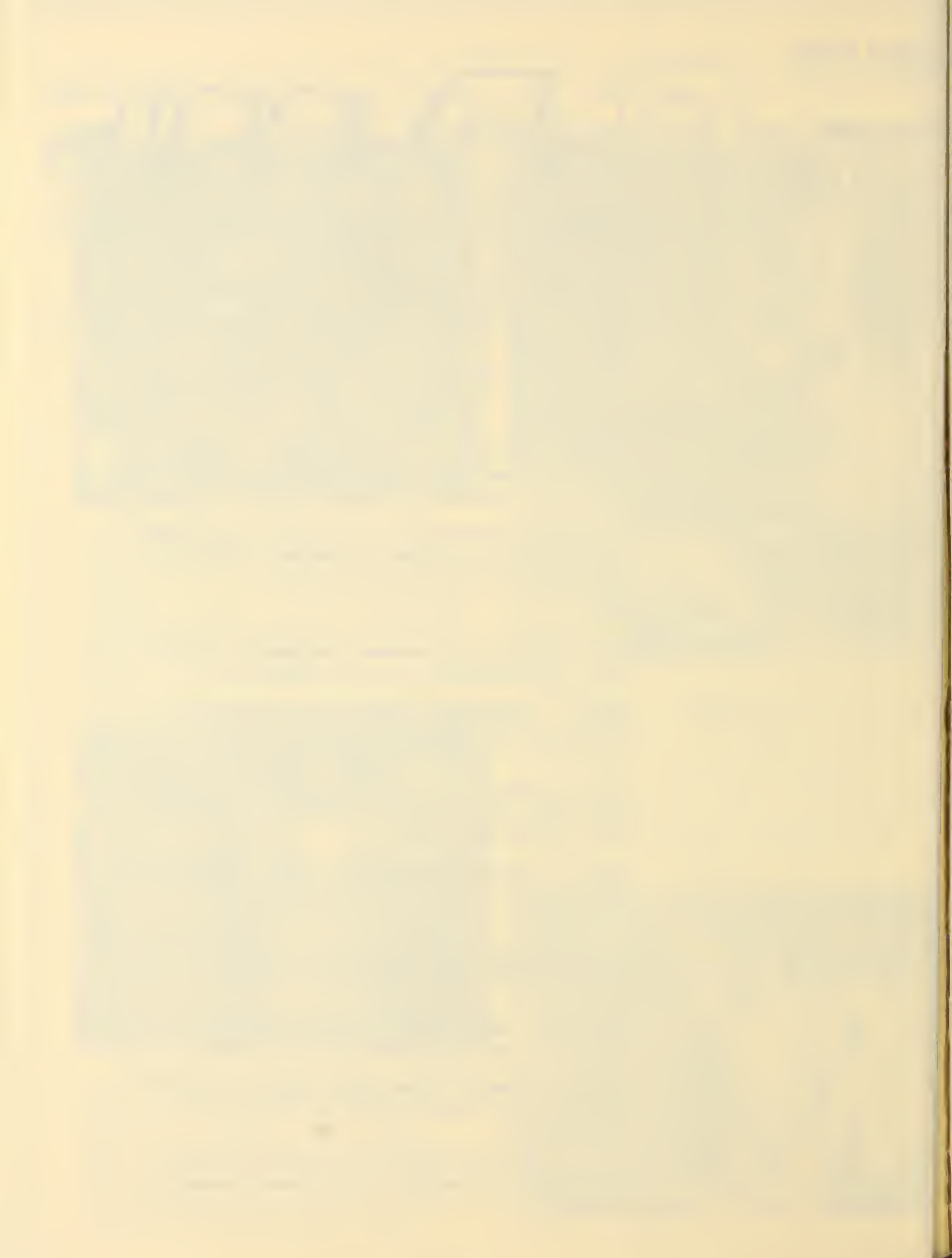
September 5-12

PLACEMENT ORIENTATIONS

- 8 Placement Orientation for all majors. Sponsored by Cooperative Education & Placement (656-2152), 9:05 a.m., Student Senate Chambers.
- 9 Placement Orientation for all majors. Sponsored by Cooperative Education & Placement (656-2152), 12:30 p.m., Student Senate Chambers.

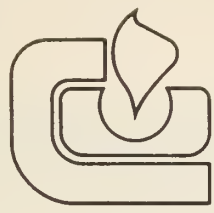
FILMS AND MUSIC

- 5 Band: Will and the Bushmen. Sponsored by University Union (656-5832), 9 p.m., Edgar's, \$1.
- 5-6 Movie: "Jagged Edge." Sponsored by University Union (656-5832), 7 & 9:45 p.m., Y-Theatre, \$1.50.
- 7 Movie: "The Pink Panther." Sponsored by University Union (656-5832), 7 & 9:15 p.m., Y-Theatre, free with University I.D.
- 8 Movie: "Return of the Pink Panther." Sponsored by University Union (656-5832), 8 p.m., Y-Theatre, \$1.
- 9 Movie: "Pink Panther Strikes Again." Sponsored by University Union (656-5832), 8 p.m., Y-Theatre, \$1.
- 9 Guitarist: Robert Stalling. Sponsored by University Union (656-5832), 9 p.m., Edgar's.
- 10 Movie: "Revenge of the Pink Panther." Sponsored by University Union (656-5832), 7:30 p.m., Y-Theatre, \$1.
- 11-13 Movie: "Pretty in Pink." Sponsored by University Union (656-5832), 7 & 9:15 p.m., Y-Theatre, \$1.50.



OTHER EVENTS

- 5 University Honors Committee Meeting. 2 p.m., 102D Tillman.
- 6 Presidential Inauguration: Inauguration of Max Lennon, Clemson's 11th president. 10:30 a.m., Outdoor Theater (Littlejohn, in case of rain).
- 6-7 Short Course: Actual Backpacking Weekend at Shining Rock. Sponsored by University Union, (656-5832), \$45.
- 7 "Straight Talk" Television Program: Sponsored by University Relations (656-3859), 10 a.m. & 10:30 p.m., WAXA-TV (Channel 40).
- 8 Short Course: Bartending. Sponsored by University Union (656-5832), 7-9 p.m., \$6.
- 9 Co-op Career Fair Banquet: Sponsored by Cooperative Education (656-3150), 6:30-9:30 p.m., \$150 per business participant. By invitation only.
- 9-10 Conference: Polypropylene Technology. Sponsored by Professional Development (656-3990), Ramada Inn, \$495.
- 10 Career Fair: Sponsored by Cooperative Education (656-3150), 9 a.m.-3:30 p.m., Palmetto Room.
- 10 Last day to order diploma for December graduation.
- 10 Clemson Club Meeting. President Max Lennon, featured speaker. Sponsored by Alumni Association (656-2345), Chattanooga, Tenn.
- 11 Clemson Club Meeting. President Max Lennon, featured speaker. Sponsored by Alumni Association (656-2345), Greenwood.
- 12 First Friday Parade.
- 12 First Friday Concert. Sponsored by University Union (656-2461), TBA.
- Continuous YMCA-sponsored classes in women's and men's fitness, youth fitness, aerobics, exercise, Jazzercise, social dancing, Middle Eastern dance, swimming, gymnastics, aquacize, soccer camp, day camp (ages 5-13), lifesaving, and after-school day-care programs, (656-2460).



Newsletter

Sept. 10, 1986
Vol 26 No 4

INFORMATION FOR THE FACULTY AND STAFF OF CLEMSON UNIVERSITY

SEP 10 1986

DISD GETS \$115,000 CONTRACT TO COMPUTERIZE DHEC PROGRAM

Nurses caring for home-bound patients in the state's Home Health Program will be able to get out from under an avalanche of federal paperwork through computer programs being developed by the Division of Information Systems Development here.

The state Department of Health and Environmental Control has awarded a \$115,000 contract to DISD to automate the program and free nurses from desks where many spend more than half their work-week filling out forms.

"Under new federal regulations, nurses have three different forms to fill out for each home health patient covered by Medicare or Medicaid insurance," says Chris Foreman, manager of information systems development. "I've heard estimates that filling out all the forms could take up to 30 hours per week, which is inexcusable when you consider that this is time taken away from caring for people."

The Home Health Program has more than 21,000 clients statewide and about 350 nurses, plus other health aides, therapists, social workers and nutrition specialists. Foreman says Medicare patients represent more than three-fourths of the nurses' case load.

Foreman plans to develop programs that will enable personal computers to handle the bulk of the paperwork by generating insurance claims based on information entered as part of the patient's

(Continued on page 2.)

COLLEGE PRESIDENTS UNVEIL \$600-MILLION RESEARCH PLAN

The presidents of the state's three major universities have proposed a five-year research program to stimulate economic growth and create jobs in South Carolina, with the \$600-million projected cost to be shared equally between the state and the institutions.

The proposal, labeled the Research Investment Act (RIA), asks the state to provide \$60 million a year for five years, with the universities pledging to raise the other \$300 million from non-state sources.

The RIA proposal was unveiled at a news conference Aug. 29 in Columbia by Clemson President Max Lennon, University of South Carolina President James B. Holderman and Medical University of South Carolina President James B. Edwards.

The presidents suggested that state funding could come from the rolling reserve fund or general obligation bonds. Each university would raise its portion of research dollars through private or federal sources, the presidents said. Holderman predicted that the state's commitment would help the schools generate even more than a dollar-for-dollar match.

The RIA would provide \$248 million for USC, \$197 million for Clemson and \$155 million for MUSC, with the state paying half.

"Individually, each institution -- the University of South Carolina, Clemson University or the Medical University of South Carolina -- is at a disadvantage in direct competition with research centers such as M.I.T., Stanford and Johns Hopkins," according to a statement released jointly by the schools.

"But an alliance of the three South Carolina universities represents a large reservoir of resources consisting of research equipment and laboratories, as well as expertise in practically all aspects of science, engineering, medicine, international business and other fields.

"These resources will move South Carolina into an enviable position in the international competition for jobs," according to the statement.

(Continued on page 2.)

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medical history.

"There's no reason a nurse should have to fill out more than one form, right at the start of a patient's care," Foreman says. "Once the information is in the computer system, a clerical person could easily enter all of the changes required to keep the patient's medical record up to date."

An experimental system being tried out in DHEC's Anderson office has cut paperwork there by two-thirds, Foreman says.

"But we can do better than that. What's in Anderson is still in the preliminary stages of development, but it's better than nothing," he says.

Complicating the project is the fact that DHEC isn't very computerized, Foreman says. "Ideally, the department needs one or more personal computers in every district and county office."

Computers are being purchased as budgets allow, and Foreman says once a statewide network is completed, Clemson can develop an even more streamlined paper pipeline from local offices to the Columbia headquarters.

"Eventually, we want to do more than have computers generate claim forms. We'd also like to have these forms available in machine-readable form so they can be transmitted to Columbia via telephone lines and eliminate a lot of the paperwork on both ends," Foreman says.

Tentative plans at DHEC call for continuing the project for two additional years, bringing the total contract to \$345,000.

TANDY EQUIPMENT DONATION AIDS INDUSTRIAL ENGINEERING

A network of four Tandy 3000 microcomputers and peripheral equipment given to the University's

(Continued on page 3.)

(Continued from page 1.)

The RIA "calls for a new alliance in higher education -- a level of cooperation and unity among research universities not seen before in South Carolina -- because it is not a strategy any institution can handle alone.

"It is a carefully constructed strategy," according to the statement. "The Research Investment Act focuses on specific areas of emphasis at the three universities, deliberately taking advantage of the potential for collaboration where complementary programs exist."

The RIA focuses on areas that will have high payoff in economic development and quality of life, Lennon said at the news conference. "The most important economic events of our history are now unfolding," he said. "The winners on the new world market will be those who have been aggressive in their research and are at the cutting edge of technology."

USC's research emphasis will be in trade and economic development, advanced science and technology, mass communication and information management, health care and disease prevention, coastal zone management, and education.

Clemson's concentrations, collectively known as the "Second Century Plan," include agriculture, engineering and basic science, marketing and management, quality of life, and textiles.

MUSC's major focus will be to develop the following research and support programs: Molecular Genetics and Structural Biology Center, Cancer Center, Marine Biomedical Center, Biotechnology Center, Heart Center, Child Health Center, Geriatrics/Rehabilitation Center, Wellness Center, Arthritis and Tissue Repair Center, Neuroscience Center, Liver Research and Clinical Care Center, Deafness Center, Drug Testing Center, and Mental Health Center.

(Continued on page 3.)



The Clemson University Newsletter is published for Martin Fowler, a clinical lab technician in biological sciences, and for all members of the faculty and staff by the Division of University Relations.

University Newsletter Editor .. Deborah M. Slice
University News Editor Jack A. McKenzie

We welcome your comments and suggestions. Call us at 656-4989 or write us at 103 Fike Center. DEADLINE is Sept. 10, noon for Sept. 17 issue.

(Continued from page 2.)

industrial engineering department will bolster graduate education and research in computer-aided manufacturing.

The equipment, valued at approximately \$24,000, is the second major donation to the department from Tandy, says Robert Davis, department head.

"The computers will enhance a laboratory that is primarily used in research activities related to the planning, design and control of automated manufacturing systems," Davis says. "This network also will allow us to initiate research in the area of modular design of manufacturing systems."

Modular designs are gaining popularity in industry because they help companies take advantage of technological advances, he says. If systems are designed so that individual machines or components of machines can be removed and replaced without disrupting an entire manufacturing process, companies are less likely to find themselves limited by outdated technology.

"This is an active research field nationally and is particularly important in South Carolina, which has a strong manufacturing industry base," he says.

Davis says the Tandy equipment, by giving the department "a much more sophisticated laboratory environment," also will aid ongoing work in computer simulation of manufacturing systems and research into how computers and humans interact.

CALHOUN COLLEGE TAKING AWARD APPLICATIONS

The Calhoun College honors program is accepting applications for six scholarships.

Forms and information are available in the honors office in suite 532 of the Clemson House.

(Continued on page 4.)

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Despite recent projections of slumping state revenues after a year of mid-year budget cuts for most agencies, the presidents were optimistic about the RIA's chances, calling it an investment the state can't afford to ignore.

"The technology boom is happening right now because 80 percent of all the scientists and technologists that have ever lived in the history of mankind are alive and working today," Edwards said. "South Carolina is not getting its fair share of that technological development, and that has hurt us."

Holderman said that bleak revenue predictions only verify how much the state needs an economic revitalization. Lennon agreed and added that a decision to pass up the proposal the three schools were offering would decide the future of some industries.

"Take the textile industry as an example. In the year 2000, only 14 years from now, there will be more than 300 million laborers in China competing against our industries, Lennon said. "There's a limited amount of time for debate. We have to decide now whether we want to still be competitive then."

COLUMBIA FAMILY ESTABLISHES ENGINEERING SCHOLARSHIP FUND

A Columbia family has established a \$25,000 endowment to fund scholarships for ceramic engineering students here.

The John A. and Evelyn H. Wells Scholarship Fund is named for the retired president of Richtex Brick and Columbia Pipe Co. and his wife, who was joined in establishing the endowment by their sons, Ames, John Jr. and William, all of Columbia and all Clemson alumni.

Ames H. Wells is vice president for marketing for Richtex Corp., John A. Wells Jr. is an eye surgeon, and William B. Wells is a sales representative in the Columbia office of Tyndall Concrete Products Co. of Spartanburg.

"My father was in the brick business and took a great interest in the development of the ceramic engineering department at Clemson," says John Wells Jr., a member of the University's Board of Visitors. "My mother, my brothers and I thought this would be an appropriate way to honor him."

Scholarships funded by investment income from the Wells endowment will be awarded on the basis of academic achievement. Ceramic engineering students will be considered first, but other engineering students may also receive awards.

(Continued from page 3.)

Thirty-two Rhodes Scholarships are given nationwide each year. Applications must be filed in the honors office by Oct. 3.

Fulbright Grants fund expenses for graduate studies in more than 50 nations. Applications must be in the honors office by Oct. 10.

Marshall Scholarships support two years of study toward a degree from a United Kingdom university. Each application must include a letter of endorsement from the respective university president or an academic dean. Applications must be mailed by Oct. 22.

For information about Mellon Fellowships in the Humanities, which cover expenses and travel for graduate studies in humanities disciplines, contact the honors office or Alan Schaffer in the history department at 656-5374.

Applications for Rotary Foundation Scholarships, which support one year of study abroad, must be submitted by Oct. 1 to a District 775 Rotary Club. Individual clubs nominate scholarship recipients.

Harry S. Truman Scholarships assist college juniors with tuition, room and board. Applications are due no later than Nov. 1.

For more information contact Jack Stevenson, director of Calhoun College, at 656-4762.

WILLIAM WEST BECOMES DIRECTOR OF EDUCATIONAL SERVICES

William E. West, a member of the industrial education faculty for 17 years, has been named director of educational services and placement.

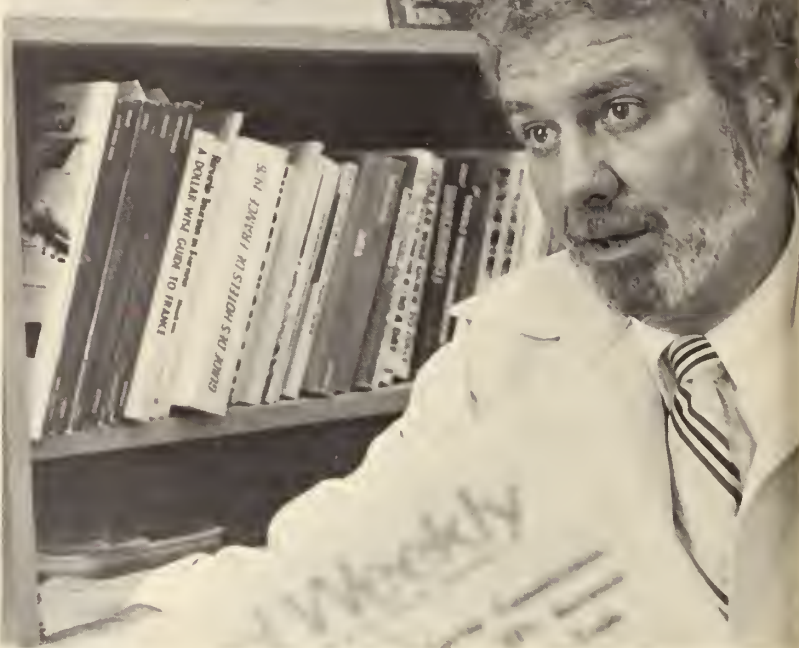
He replaces B. Verner Burkett, who is returning to teaching.

West's new responsibilities in the College of Education include teacher certification, placement and continuing education in-service programs. He also directs the Instructional Materials Center.

West holds master's and doctoral degrees from Ohio State.

Vacation Planning Center

EASTERN



Dick Howell

HOWELL TO DIRECT RECREATION INSTITUTE

Dick Howell, associate professor of travel and tourism, has been named director of the Recreation, Travel and Tourism Institute here.

Howell was on the faculty of Virginia Commonwealth University before coming to Clemson five years ago.

He holds a master's in urban and regional planning from VCU and a doctorate in environmental design and planning from Virginia Tech.

He has had extensive experience in consulting and public service work both in Virginia and South Carolina.

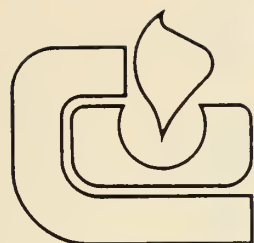
He designed the Gray Line tour of Richmond and was instrumental in forming the Southeast Chapter of the Travel and Tourism Research Association.

The primary focus of the newly approved RTTI will be to coordinate travel and tourism research projects and to get the results of those studies to the travel and tourism industry, Howell said.

The institute will work with other departments on campus as well as coordinate with other state institutions, regional consortia and international organizations.

Howell said priority will be given to studies relevant to South Carolina.

The institute is funded by the parks, recreation and tourism management department, but Howell said he hopes to get additional funding through contracts, foundations and grants.



Events

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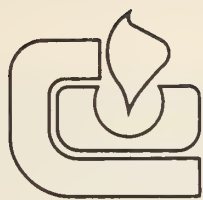
September 12-19

CONFERENCES, LECTURES AND SHORT COURSES

- 15 Short Course: CPR. Sponsored by University Union (656-5832), 7-9 p.m., \$20.
- 15-24 Short Course: Radio Broadcasting - Session I. Sponsored by University Union (656-5832), Mondays & Wednesdays, 8-9:30 p.m., \$10.
- 16 Speech by Larry Linville (M*A*S*H). Sponsored by Speakers Bureau, 8 p.m., Tillman Auditorium, free.
- 16&17 Short Course: Makeovers by Aloette. Sponsored by University Union (656-2461), \$5.
- 16-17 Conference: Laser Technology. Sponsored by Professional Development (656-3990), Ramada Inn, \$495.
- 16-25 Short Course: Radio Broadcasting - Session II. Sponsored by University Union (656-5832), Tuesdays and Thursdays, 8-9:30 p.m., \$10.
- 17 Lecture: "Indians and Race in Southern History" by Theda Perdue, Clemson professor of history. Sponsored by College of Liberal Arts (656-3263), 3:30-5 p.m., 108 Strode Tower, free.
- 17 New Faculty Luncheon Meeting. Noon, Palmetto Ballroom (656-3022).
- 17 Meeting: "Good Teaching: The Professor's View." For new faculty members. 12:15 p.m (656-3022).
- 18 Meeting: Institute of Industrial Engineers, 7 p.m., 300 Riggs Hall, open to public (656-2703).
- 18 Short Course: CPR. Sponsored by University Union (656-2461), 7-9 p.m., \$20.
- 18-19 Workshop: Training the Trainer. Sponsored by Professional Development (656-2200), Ramada Inn.

FILMS & MUSIC

- 12-13 Movie: "Pretty in Pink." Sponsored by University Union (656-5832), 7 & 9:15 p.m., Y-Theatre, \$1.50.



Newsletter

SEP 17 1986

Sept. 17, 1986
Vol 26 No 5

INFORMATION FOR THE FACULTY AND STAFF OF CLEMSON UNIVERSITY

UNIVERSITY GETS GRANT TO DEVELOP BUSINESS, HUMANITIES PROGRAM

A \$114,000 grant from the U.S. Department of Education will allow Clemson to develop and implement a B.A. program in language and international trade, the first of its kind among land-grant institutions.

The grant is from the Comprehensive Program of the Fund for the Improvement of Post-Secondary Education.

If approved at the university and state levels, the program will be implemented in 1987-88, with \$54,138 of second-year funding. Together with \$222,138 in state funds, total support will be \$390,642.

Housed in the College of Liberal Arts, the program will combine the technical elements of international business with the humanistic aspects of foreign cultures.

Students will pursue one of three foreign language tracks (French, German or Spanish) and one technical option (international marketing in either agriculture, textiles, tourism, or global marketing).

"All these areas are critical, not only for improving the U.S. balance of payments generally, but in the case of textiles, for helping solve the problems of a severely troubled U.S. industry," Pat Wannamaker, program coordinator, said.

"Our goal is to develop cultural sensitivity as the ultimate marketing tool as a means of increasing international under-

FRESHMEN SAT AVERAGE SETS RECORD HIGH

The average Scholastic Aptitude Test score for Clemson's entering freshmen this fall is 1,025 -- the highest ever here and a whopping 13 points higher than expected.

"This is eight points above our previous high of 1,017, which was in 1982, and 13 points higher than last year," said Richard Mattox, director of admissions.

"That's a whale of an increase when you consider we're talking about the average for an entire entering class of approximately 2,240 students."

Clemson traditionally leads South Carolina's state-supported schools in freshman SAT scores, and admissions officials had expected this fall's average to be about the same as last year's 1,012, Mattox said.

State and national figures are not yet available for this year, but the average SAT score for college-bound freshmen in South Carolina last year was 815. The national average was 883.

"We haven't analyzed all the possibilities yet, so I'm not completely sure of all the reasons for the increase," Mattox said, "but clearly our ability to offer more scholarships and, therefore, to attract more top-level students was a significant factor."

Marvin Carmichael, director of financial aid, agreed. "New scholarship programs are helping us attract more academically talented students," he said.

"Our most substantive new program is the Athletic Academic Endowment, which was established last year with funds from the athletic department," Carmichael said. "In its first year, that program is providing scholarships of \$1,500 each for 26 students selected on the basis of academic achievement."

Scholarships are one way the University is trying to offset the funding cutbacks and increased paperwork plaguing federal financial aid programs.

Because of bureaucratic delays as many as

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standing," Wannamaker said.

"For example, many businessmen are not familiar with the cultural aspects of a country they may be doing business in and, as a result, can make some embarrassing and costly mistakes."

To remedy that, a student will study all aspects of the country he is specializing in.

"For example, a German-track major would take courses on German civilization, contemporary German culture on both sides of the Iron Curtain, advanced conversation, and modern German literature, history, and geography, as well as economics, marketing, management, and politics," Wannamaker said.

Majors also will intern for four to six months with multinational firms in the United States or abroad.

The L&IT project is a collaborative effort among four colleges: Agricultural Sciences, Commerce and Industry, Forest and Recreation Resources and Liberal Arts.

The project also has already received the support of several state businesses and government agencies, including the State Development Board, the Department of Parks, Recreation and Tourism, the Department of Agriculture, the Small Business Development Center, and the International Trade Administration.

Thirteen new courses in six departments will be developed, Wannamaker said.

POLICE WARN EMPLOYEES ABOUT POCKETBOOK THEFTS

University offices have experienced a series of pocketbook thefts, said crime prevention officer Thea McCrary.

"We urge you to make your staff aware of this situation and

(Continued on page 3.)

(Continued from page 1.)

2,000 Clemson students faced fall-semester registration Aug. 19 without having their federal financial aid available, Carmichael said.

"By using loan approvals, deferring payments and accepting promissory notes for room and board, we were able to make special provisions for most of those students so they could go ahead and start the semester," he said.

Mattox said that, in addition to the 2,240 entering freshmen, the University enrolled about 485 transfer students this fall. That means the total number of new students is a record 2,725, which is 27 more than last year's all-time high of 2,698.

UNIVERSITY NEWSLETTER GETS NEW EDITOR

Deborah M. Slice has become editor of the University Newsletter.

She succeeds Joyce D. Barrett, who left the University in August to devote full time to her career as a free-lance writer.

Slice, 24, worked for a year in the News Bureau at the University of South Carolina.

Before that, she spent a year as a news writer in the public relations office of Francis Marion College.

She is a 1983 Clemson graduate and was a writing intern in the news services department here as a student.

"Deborah is a talented writer with good experience in the news programs here, at USC and at Francis Marion," said Jack A. McKenzie, University news editor. "It's great to have her back at Clemson as editor of the Newsletter."



The Clemson University Newsletter is published for Deborah Slice, who became the Newsletter's editor this month, and for all members of the faculty and staff by the Division of University Relations.

University Newsletter Editor....Deborah M. Slice
University News Editor Jack A. McKenzie

We welcome your comments and suggestions. Call us at 656-4989 or write us at 103 Fike Center. The DEADLINE is Sept. 17, noon, for Sept. 24 issue.

(Continued from page 2.)

advise them to immediately report all suspicious persons or activity to the University police at 656-2222," McCrary said.

She suggested several actions that may prevent a crime:

-- Lock your office when you leave, even if you will be out for only a few minutes.

-- Keep your purse, wallet and other valuables in a secure place, such as a locked desk or filing cabinet.

-- If you must work at night, avoid walking alone and keep all doors locked.

STATE LIFTS

WATER RESTRICTIONS

The S.C. State Drought Committee has lifted voluntary water use restrictions for the Upstate.

University employees were very cooperative during the campaign for water conservation, said David Larson, vice president for business and finance.

"The news is good, but let's not forget that water is a precious commodity, and we should, as good citizens, do our part to protect our supply," Larson said.

TRAFFIC TICKET APPEALS PROCESS AVAILABLE TO EMPLOYEES

An appeals process is available for University employees charged with campus parking or traffic violations.

Employees can present their cases 2-4 p.m. on Tuesdays and Wednesdays in the University police building next to the football stadium, said Bill Pace, director of parking and vehicle registration.

"The municipal judge hears each case and allows the ticket-holder to present defense witnesses and evidence, to question

(Continued on page 4.)



Jim McCarter, chairman of the College of Engineering's Advancement Committee, shows Mr. and Mrs. Tom Hunter a check representing \$200,000 for the Hunter Scholars program.

CLEMSON'S OLDEST ALUMNUS CELEBRATES 100th BIRTHDAY

The University helped Clemson's oldest alumnus celebrate his 100th birthday Sept. 3 with a luncheon at the Clemson House.

The luncheon honored engineer and inventor Thomas Hunter, whose name and reputation have brought in more than \$200,000 for a scholarship program in the College of Engineering.

A check for that amount, raised by a group known as "Friends of Tom Hunter," was presented at the luncheon to Jeff McNeill, associate vice president for development. The money will benefit the Hunter Scholars program.

Hunter graduated from Clemson in 1909 in mechanical and electrical engineering. A pioneer of the electrical age, he worked alongside the likes of Marconi and Edison. Hunter holds more than 20 major patents for his inventions.

He is best known as the inventor of the Hunter transformer, a 1940s development used worldwide for electric welding of such materials as steel pipes for oil and gas lines.

He has become a major benefactor of Clemson's bioengineering department, which is internationally known for its work in the development of artificial implant materials and procedures.

In 1973 he established the University's first endowed chair, the Hunter Chair in Bioengineering, in honor of his brother, who was a member of Clemson's first graduating class and who taught mathematics to three generations of Clemson students.

(Continued from page 3.)

adverse witnesses, and to be accompanied by legal counsel," Pace said. "The judge then confirms, decreases, or revokes the penalty."

An employee charged with a traffic violation may waive the right to trial by paying the penalty at the Office of Parking and Vehicle Registration during regular working hours or by mail.

LENNON TO ADDRESS TEXTILE GROUP

Faculty and staff members are invited to hear President Max Lennon address the Palmetto Chapter of the American Association of Textile Technology Sept. 22 at the Poinsett Club in Greenville, says chapter secretary Clarence Rogers.

Rogers, an associate professor of textiles, says Lennon will speak on "Future Directions of Textile Research and Technology."

A social hour at 6 p.m. will be followed by dinner at 7 p.m. The cost of the dinner is \$10 per person.

Dinner reservations must be made by this Friday, Sept. 19. To make them, call Rogers' office at 656-3176.

WRONG NUMBER

Phi Kappa Phi members who haven't been contacted by the local chapter within the past year should call chapter secretary Jack McCormac at 656-3323.

His number was incorrectly reported in the Sept. 3 Newsletter.

TELECONFERENCE TO AIR AT STADIUM

A national teleconference on biological diversity will be held 8-10 p.m. Sept. 24 in the President's Box at the football stadium.

The program is free. For details, call John Morse in the entomology department at 656-5049.

UNIVERSITY WELCOMES NEW EMPLOYEES

The University welcomes these new members of the faculty and staff who joined Clemson in recent weeks.

Accounting: Neil E. Byerley (Lect); Robert L. Hickman (Lect); Carolyn Reingeisen (Lect).

Agronomy and Soils: Lisa W. Jones (Ag Sci Asst II).

Building Maintenance: James F. Carter (Trades Helper); Jerry A. Whitmire Jr. (Trades Helper).

Chemistry: Kevin V. Goodwin (Research Assoc and Asst Prof); Benjamin S. Sears (Laboratory Aide III)

Continuing Education: Lenora C. Rosenberger (Admin Spec A).

Earth Sciences: Christopher G. Maples (Vstg Asst Prof).

Education Services and Placement: Cheryl L. Rumminger (Lect).

Electrical and Computer Engineering: Ronald E. Ham (Assoc Prof); Robert W. Scharstein (Asst Prof).

Elementary and Secondary Education: David E. Barrett (Assoc Prof); Barbara Griffin (Assoc Prof); William H. Leonard (Prof of Educ and Biology); Margaret A. Moore (Asst Prof).

Economics: Maurice Tinsley (Instr).

Engineering Services: Dewitt A. Latimer (Lect).

English: Julia A. Overton (Vstg Instr of Speech); Kellie W. Roberts (Instr).

Entomology: Charles I. Dial III (Entomologist I)

Grounds: John E. Dotson (Laborer); Martin W. Stone (Laborer).

Industrial Engineering: Enar A. Tunc (Vstg Lect).

Languages: James M. Sharkey (Vstg Asst Prof of Fr/Latin).

Laundry: Daisy B. Blanding (Laundry Worker II).

Livestock and Poultry Health: Aaron C. Johnson (Meat Inspr I).

Psychology: Benjamin R. Stephens (Asst Prof).

Student Services: Jeffery S. Martin (Prog Coord III).

DEPARTMENTAL NOTES

AGRONOMY & SOILS

U.S. Jones (Prof Emeritus) was awarded a Fulbright grant to lecture at the University of Zimbabwe in Harare and was appointed visiting professor in the department of land management there for the 1986-87 year.

J.A. Martini (Prof) published the following:

-- Introductory Soil Science -- Principles and Relationships, Lecture Notes, Second Edition. 1986, 400 pages.

-- Introductory Soil Science -- Principles and Exercises, Laboratory Manual, Revised 3rd Edition. 1986, 275 pages.

J.H. Palmer (Prof) discussed the future of soybean research and extension activities at a reunion of previous American Soybean Association/ICI America's Research Award winners in St. Louis July 11-14.

Prof. Palmer was an invited chair of a panel of southern soybean growers at the American Soybean Association's Annual EXPO in Cincinnati July 25-28. The panel discussed innovations in soybean production efficiencies.

BIOENGINEERING

R.L. Dooley received a \$3,000 donation of artificial intelligence software from Texas Instruments to support research in the Bioengineering Alliance. In support of the 1986 Academy of Surgical Research meeting in

October, Prof. Dooley also has received \$500 in contributions from the following companies: American Bentley, Irvine, Calif.; C.R. Bard Inc., Murray Hill, N.Y.; Davis & Geck, Dansbury, Conn.; and Ethicon Inc., Sommerville, N.J.

CHEMICAL ENGINEERING

J.C. Mullins (Prof) and D. Swank (Former Grad Stu) presented "Evaluation of Methods for Calculating Liquid-Liquid Phase Splitting" at the Fourth International Conference on Fluid Properties and Phase Equilibria for Chemical Process Design in Helsingor, Denmark, May 11-16.

CIVIL ENGINEERING

S.C. Anand (Prof) was invited by the department of civil engineering at Carlton University in Ottawa, Canada, to serve as the external examiner on a Ph.D. dissertation defense committee Aug. 8.

DAIRY SCIENCE

F.E. Pardue (Prof), who has served the S.C. dairy industry for more than 20 years, was honored with a Fred E. Pardue Appreciation Day at 4-H Camp Long in Aiken June 30. He also was honored by the South Carolina Guernsey Cattle Club at their annual meeting in Saluda Feb. 22 as the 1986 Honoree of the Year.

D. Vines (Ext Dairy Scientist & Assoc Prof) presented "Integrated Reproductive Management Program on 22 South Caro-

lina Dairy Farms" at the American Dairy Science Association's annual meeting at the University of California, Davis, June 23-26.

EARTH SCIENCE

J.R. Wagner (Asst Prof) published a chapter on topographic map interpretation in the American Geological Institute's "Laboratory Manual in Physical Geology."

ELECTRICAL & COMPUTER ENGINEERING

A.W. Bennett (Prof & Head) was elected secretary/treasurer of the National Electrical Engineering Department Heads Association for 1986-87.

Prof. Bennett initiated the first two annual national meetings of the group, which were hosted by the Clemson E.C.E. department.

E.B. Makram (Asst Prof) was appointed to a subcommittee of the Power Engineering Education Committee of the Institute of Electrical and Electronics Engineers. He will work on issues affecting power engineering education in the United States.

R.J. Schalkoff (Assoc Prof) and K.A. Dzialo (Grad Stu, Worcester Polytechnic Institute) published "Control Implications in Tracking Moving Objects Using Time-Varying Perspective-Projective Imagery" in the IEEE Transactions on Industrial Electronics, IE-33, No. 3 (Aug. 1986).

(Continued on page 6.)

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ENGINEERING

J.C. Jennett (Dean & Prof, Environmental Systems Engineering) was awarded a Certificate of Appreciation from the American Society of Civil Engineers' Environmental Engineering Division in recognition of his service as chairman of the society's Professional Coordination Committee. The PCC was organized to present the society's opinions to the United States Congress and other national and international organizations within the U.S. government.

ENGLISH

C. Johnston (Asst Prof) published "Thomas Wolfe: An Update" in The Dictionary of Literary Biography Yearbook 1985, (Detroit: Gale Research, 1986) 309-316.

R.W. Moran (Prof & Asst Dean) was appointed to a three-year term on the Advisory Committee for the College Transfer Program at Greenville Technical College.

R. Rollin (Lemon Prof) published a review of Margaret Spufford's Small Books and Pleasant Histories: Popular Fiction and Readership in Seventeenth-Century England (Athens: Univ of Georgia Press, 1982) in The Eighteenth Century: A Current Bibliography, n.s. 8.

D.L. Shealy (Vstg Asst Prof) published "Ralph Waldo Emerson's Lecture on Brook Farm" and "Louisa Alcott's Account of Emerson's 'Poetry and Criticism'"

in The Concord Saunterer, 18, No. 2 (1985) 28-29 and 47-49.

D. Tillinghast (Assoc Prof) published "Don Peters and Edna St. Vincent Millay" in the Wisconsin Review, 18, No. 3 (1986) 32, and addressed the Anderson Writers' Guild on the role of the poet in society Nov. 7, 1985.

E.P. Willey (Assoc Prof) published a poem, "Rites of Passage," in New York Quarterly, 29 (Spring 1986) 30.

EXTENSION HOME ECONOMICS

J. Kline (Assoc Prof) and J. Christenbury (Assoc Prof) presented programs at the 1986 Annual Vocations Education Conference at the University of South Carolina in Columbia July 29.

C.T. Mounter (Assoc Prof) co-chaired a workshop session for assistant directors, state leaders and advisers at the National Extension Homemakers Council meeting in Blacksburg, Va., in July.

INDUSTRIAL ENGINEERING

C.R. Lindenmeyer (Prof) received a \$15,000 grant from the Westinghouse Educational Foundation to support the PARATEC (Paraprofessional Technical) Student Field Project Program.

LANGUAGES

M. Cranston (Prof of French) published a poem, "Heading South," in the summer issue of The Wayah Review (Vol. 7), a journal supported by the National

Endowment for the Arts.

Prof. Cranston was elected a member of the executive committee of the Philological Association of the Carolinas and chaired a special session, "In memoriam: Heinrich Boll," at the spring meeting.

J.A. McNatt (Asst Prof of French) published The Novels of Roger Vailland: The Amateur and the Professional, (New York: Peter Lang).

H.M. Riley (Prof of German & Head) published the following reviews:

-- "Roland Hoerman: 'Achim von Arnim.' (TWAS, 722) Boston: Twayne, 1984. 164 pages."

-- "Thomas Sternberg: 'Die Lyrik Achim von Arnims. Bilder der Wirklichkeit-Wirklichkeit der Bilder.' (Abhandlungen zur Kunst-, Musik-, und Literaturwiss. 342) Bonn: Bouvier, 1983. 324 pages."

-- "Richard Wagner: Oper und Drama .Hrg. von Klaus Kropfinger. (Universalbibliothek, 8207) Stuttgart: Reclam, 1984. 548 pages."

-- "Klaus-Dieter Dobat: 'Musik als romantische Illusion.' Tübingen: Niemeyer, 1984. 309 pages."

The four reviews appeared in the Colloquia Germanica, 18, No. 2, 1985, pp 171-172, 172-173 and 174-177 respectively.

H.E. Stewart (Prof of French) was named president-elect of the

(Continued on page 7.)

(Continued from page 6.)

South Carolina Foreign Language Teachers' Association April 19.

Prof. Stewart also was awarded a Travel to Collections Grant by the National Endowment for the Humanities for summer research in Paris.

MANAGEMENT

R.L. LaForge (Prof), J.W. Patterson (Assoc Prof) and E.A. Vergal (Grad Stu) published "A Comparison of Two Part-Period Balancing Rules" in the Journal of Purchasing and Materials Management, 22, No. 2 (Summer 1986) 30-36.

MATHEMATICAL SCIENCES

J.V. Brawley (Alum Prof) published "Vandermonde Independent Matrices, Basic Sets and Polynomial Matrix Functions over a Finite Field" in Linear and Multilinear Algebra, 19, (1986) 373-386.

P.M. Dearing (Assoc Prof) was awarded a National Research Council Fellowship for a year of study at the Naval Postgraduate School in Monterey, Calif. The N.R.C. is the principal operating agency of the National Academy of Sciences.

R.E. Jamison (Prof) presented:

-- "The Representation of Partial Orders by Convex Sets" at the Oberwolfach Conference on Convex Bodies in Oberwolfach, West Germany, July 7-12.

-- "Poly-chrome Spanning Trees in Edge-colored Graphs" at the International Colloquium

on Graphs and Combinatorics in Marseilles, France, June 22-28.

-- "Direction Paths and Trees" at the Fourth International Geometry Symposium in Siegen, West Germany, July 3-5.

R. Laskar (Prof) presented:

-- "Gallai Theorems for Graphs, Hypergraphs and Set Systems," co-written by E.J. Cockayne (Prof, Univ of Victoria, Canada) and S.T. Hedetniemi (Prof, Comp Sci), at the First Japan Conference on Graph Theory and Applications in Hakone, Japan, June 1-5, and at the Theorie des Graphes et Combinatoire 3eme Colloque International in Marseille, France, June 23-28.

-- "On Irredundance and Dimension of POSETS," co-written by Prof. Hedetniemi, at the First China-USA International Conference on Graph Theory and its Applications in Jinan, China, June 9-20.

-- "Linear-time Computability of Combinatorial Problems on Generalized-Series-Parallel Graphs," co-written by Prof. Hedetniemi, K. Peters (Former Grad Stu), E. Hare (Lect, Comp Sci) and T. Wimer (Prof, Clarion Univ), at the Japan-United States Joint Seminar on Discrete Algorithms and Complexity Theory in Kyoto, Japan, June 4-6.

MECHANICAL ENGINEERING

M. Ahmadian (Asst Prof) presented:

-- "Model Referenced Adaptive Control for an

Industrial Manipulator" at the International Federation of Automatic Control Symposium on Control of Distributed Parameter Systems in Los Angeles July 30-July 2. Prof. Ahmadian co-wrote the paper with K. Ramamurthi (Grad Asst).

-- "On the Computational Efficiency of Stability Techniques Applied to Linear Discrete Dynamic Systems" and "Stability Results for Lumped-Parameter Time-Varying Systems" at the 27th Structures, Structural Dynamics and Materials Conference in San Antonio, Texas, May 19-21.

R.S. Figliola (Assoc Prof) published "Convection Transitions within a Vertical Cylinder Heated from Below" in the Physics of Fluids, 29, (July 1986) 7.

J.E. Jackson (Assoc Prof) presented "A Finite Element Model for the Lateral Strength of Railroad Track Structures" at the International Conference on Computational Mechanics in Tokyo May 26. N.R. Bauld (Prof) and M. Ramesh (Grad Asst) wrote the paper, which deals with a research project funded by the Association of American Railroads.

J.A. Liburdy (Assoc Prof) and C. Raghunath (Grad Asst) presented "Predictions of a Turbulent Offset Jet" at the AIAA/ASME 4th Joint Fluid Mechanics, Plasma Dynamics and Laser Conference in Atlanta May 12-14.

(Continued on page 8.)

(Continued from page 7.)

Prof. Liburdy presented an invited talk, "Holographic Interferometric Studies of Thermal Plumes," at the National Bureau of Standards June 24.

C.E.G. Przirembel (Prof & Head) participated in the 1986 American Society of Mechanical Engineers Education Conference in Chicago July 23-25. The conference addressed the mechanical engineering education issues for the next decade. Prof. Przirembel served on the Conference Organizing Committee.

Prof. Przirembel recently was appointed to the Projects Board of the American Society for Engineering Education.

T.T. Yang (Prof) was invited to give a short course on "Design of High Efficiency Gas Turbine" at National Tsing Hwa University, Taiwan, Republic of China, Aug. 7-12. The course was part of the high-tech development program sponsored by the Ministry of Education.

NURSING

B.C. Barham (Asst Prof) presented two seminars on "Mental Health Problems of the Older Adult" July 28 in Anderson and July 30 in Greenwood. Sponsored by the S.C. Area Health Education Center, the seminars were for nurses preparing to take the American Nurses' Association Certification Exam in Gerontologic Nursing.

D.R. Moore (Med Res Coord) was elected for a

second term as Region 3 representative to the board of directors for the Association for Educational Communications and Technology of South Carolina. Region 3 consists of Aiken, Edgefield, Saluda, Newberry, Greenwood, McCormick, Abbeville, Anderson, Oconee and Pickens counties.

PHYSICS & ASTRONOMY

P.B. Burt (Prof) was an invited participant in and presented "Nonperturbative Solution of Nonlinear Field Equations" to the International Conference on High Energy Physics at the University of California, Berkeley, July 16-23.

W.E. Gettys (Prof) was named chief reader designate for the advanced placement program in physics by the Educational Testing Service for the coming year. Prof. Gettys, who will become chief reader at the end of this period, will oversee the grading or reading of the essay portion of the A.P. examination and recommend the cutoff scores which are used by colleges and universities to award advanced placement credit.

A.L. Laskar (Prof) was awarded a one-year research grant of \$59,959 from the Naval Research Laboratory in Washington, D.C., for the project "Metal Azide Crystals and Their Characterization."

Prof. Laskar presented a lecture on "Superionic Behavior of Silver Compounds" at a

Gordon Research Conference in Wolfeboro, N.H. June 30-July 4.

J.R. Ray (Prof) presented an invited lecture, "Calculation of Elastic Constants Using Molecular Dynamics," at the International Workshop on Condensed Matter Theories at Argonne National Laboratory July 21-26.

Prof. Ray conducted research at the Supercomputer Institute of the University of Minnesota July 14-20.

PLANT PATHOLOGY & PHYSIOLOGY

L.W. Baxter Jr. (Prof) and Susan G. Fagan (Ag Sci Asst) published "New Observations on Camellia Leaf Gall" in The Camellia Journal, 41, 18-20.

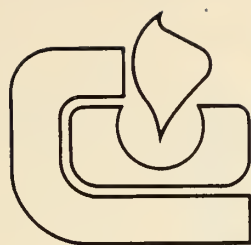
TEXTILES

H.M. Behery (Prof) conducted a six-week lecture series at the Universidad Pontificia Bolivariana and Association Colombiana de Profesionales y Expertos Textiles as part of advanced courses on textile science and technology in Medellin, Colombia, June 4-July 2.

Prof. Behery also presented two seminars in Medellin:

-- "Challenge for Top Management to New Technology in Textile Industry," July 16.

-- "Geotextiles -- Applications, Uses and Design for Civil Engineering Structures," presented to textile industry personnel at the Universidad Pontificia Bolivariana July 17.



Events

SEP 17 1986

 INFORMATION FOR THE FACULTY AND STAFF OF CLEMSON UNIVERSITY

This calendar is prepared up to a month in advance. Please send in writing to the MASTER CALENDAR EDITOR, 103 Fike Center, any campus event that should be listed. You may also want to call 656-4993 to check the UNIVERSITY MASTER CALENDAR for possible scheduling conflicts. (Call the number listed in each entry for more information.)

September 19-26

CONFERENCES, LECTURES AND SHORT COURSES

- 18 Meeting: Institute of Industrial Engineers, 7 p.m., 300 Riggs Hall, open to public (656-2703).
- 18-19 Workshop: Training the Trainer. Sponsored by Professional Development (656-2200).
- 19 Graduate Student Association Meeting. Sponsored by GSA (656-3195), 4:45 p.m., Senate Chambers.
- 22 Lecture: "Max L. Margolis: Who Was He and Who Cares Anyway?" by associate history professor Leonard Greenspoon. Sponsored by College of Liberal Arts (656-3263), 3:30 p.m., 108 Strode Tower, free.
- 23-25 Chemistry of Dyeing and Finishing. Sponsored by Professional Development (656-3990), Ramada Inn, \$495.
- 24 National biodiversity teleconference with world-renowned scientists such as Stephen Jay Gould, E.O. Wilson & Paul Ehrlich. Sponsored by Smithsonian Institution & National Academy of Sciences, coordinated by Sigma Xi (656-4865). 8-10 p.m., President's Box, Memorial Stadium, free.

FILMS AND MUSIC

- 18 Concert Series: North Carolina Symphony Orchestra. Sponsored by music department (656-3043), 8 p.m., Littlejohn Coliseum, students free, \$2 children, \$6 adults.
- 18-19 Band: Swinging Richards. Sponsored by University Union (656-5823), 9 p.m.-12 a.m., Edgar's.
- 18-20 Movie: "Ironeagle." Sponsored by University Union (656-5832), 7 & 9:15 p.m., Y-Theatre, \$1.50.
- 21 Movie: "Kramer vs. Kramer." Sponsored by University Union (656-5832), 7 & 9:15 p.m., Y-Theatre, free with University I.D.
- 22 Movie: "Blue Thunder." Sponsored by University Union (656-5832), 8 p.m., Y-Theatre, \$1.
- 23 Entertainer: Carl Rosen. Sponsored by University Union (656-5832), 9-11:30 p.m., Edgar's.

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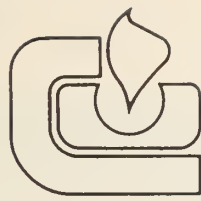
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- 24 Movie: "Boudu Saved From Drowning." Sponsored by College of Liberal Arts and University Union (656-5832), 7:30 p.m., Y-Theatre, \$2.
- 24 Film: High Tech in Japan on Update. Sponsored by College of Architecture & Japanese Consulate General (656-3081), 3:30-4 p.m., 100 Lee Hall, free.
- 25-26 Movie: "Down & Out in Beverly Hills." Sponsored by University Union (656-5832), Y-Theatre, \$1.50.
- 25-26 Band: Andrew and the Upstarts. Sponsored by University Union (656-2461), Edgar's.

OTHER EVENTS

- Through Exhibit: "Early Student Life at Clemson."
Oct. 15 Sponsored by Special Collections (656-3031),
Cooper Library, free.
- 19 Gatlinburg Whitewater Trip. Sponsored by University Union (656-5832), \$40.
- 19 Soccer: George Mason Invitational, 2 p.m., away (656-2101).
- 20 Football: Georgia, 1 p.m., away. (656-2101).
- 21 Soccer: George Mason Invitational, 3 p.m., away (656-2101).
- 21 Trip to Maggie Valley and Ghost Town. Sponsored by University Union (656-2461), 7 a.m.-8 p.m., \$26.
- 22 Placement Orientation for all majors. Sponsored by Cooperative Education and Placement (656-2152), 2:30 p.m., Senate Chambers.
- 22 Annual Fall Party for all graduate students. Sponsored by Graduate Student Association (656-3166), 4:30 p.m., Y-Beach.
- 22- Support Group for family members of cancer patients.
Oct. 27 Sponsored by College of Nursing (656-3076), 7:30 p.m. Mondays, Nursing Center, free.
- 22-26 Display: Traveling Gallery of the Screen Printing Association International. Sponsored by industrial education department (656-3447), University Union, free.
- 23-27 Clemson Players Production: "The Curious Savage" by John Patrick, 8 p.m., Daniel Hall Auditorium (matinee 3:30 p.m. 25th), (656-3043), \$2 public, \$1 faculty and staff, students free.
- 24 Soccer: Erskine, 8 p.m., Riggs Field (656-2101).
- Continuous YMCA-sponsored classes in women's and men's fitness, youth fitness, aerobics, exercise, Jazzercise, social dancing, Middle Eastern dance, swimming, gymnastics, aquacize, soccer camp, day camp (ages 5-13), lifesaving, and after-school day-care programs, (656-2460).



Newsletter

Sept. 24, 1986
Vol 26 No 6

INFORMATION FOR THE FACULTY AND STAFF OF CLEMSON UNIVERSITY

UNITED WAY GOAL SET AT \$50,000

The thermometer for the University's annual United Way campaign is rising again, this time with a goal of \$50,000, a 70-percent increase over last year's receipts.

Frank Mauldin, assistant vice president for human resources, heads this year's monthlong drive, which officially began Sept. 18.

"We hope that every University employee will welcome this opportunity to donate to the United Way," Mauldin said.

"Donations from Clemson employees will benefit many service programs in Anderson, Oconee and Pickens counties."

Gifts can be made by direct contribution or by the payroll deduction method, he said. Volunteers representing each college or department are available for contribution information.

For more information, call Mauldin or Jackie Greene at 656-3181.

FIRE DEPARTMENT OFFERS EXTINGUISHER TRAINING

The University Fire Department offers fire extinguisher training sessions.

The program, which lasts about 30-45 minutes, covers the proper use of fire extinguishers and allows participants to practice using the equipment.

Demonstrations can be arranged to suit departments' schedules.

For more information, call Inspector Albert Timms at 656-2323.

MECHANICAL ENGINEERS PARTICIPATE IN \$2.6 MILLION RESEARCH PROJECT

SEP 24 1986

A three-university consortium including Clemson began a \$2.6-million research project this month funded under the new federal University Research Initiative program.

The contract, awarded by the U.S. Air Force Office of Scientific Research, involves the mechanical engineering department in a collaborative effort with Carnegie Mellon University and the University of California-Berkeley to develop advanced technologies for high-temperature structural materials.

Clemson's participation in the project will bring at least \$500,000 to the department over the next three years.

The total project is funded at more than \$2.6 million, and Clemson will receive approximately 20 percent, said mechanical engineering and metallurgy Professor Henry Rack.

"The results of this should be directly applicable to the Reagan administration's plan to build the trans-atmospheric vehicle mentioned in the January State of the Union address," Rack said.

"The Defense Department and NASA are working together to develop an airplane that can fly from Chicago to Hong Kong in two hours."

The universities' primary interest is developing the means to manufacture the advanced materials that would be used in such an aircraft.

The project is in an area -- composite materials -- identified by President Max Lennon's "Second Century Plan" as a primary research emphasis because of its potential to aid economic development in South Carolina.

"Somebody's going to be building these vehicles, but it's going to be in a state that has the right technological foundation," Rack said.

"South Carolina has a manufacturing-based economy already, but the manufacturing industry of the 1990s and beyond will be based on value-added products rather than mass production of commodity articles."

Rack and his colleagues are seeking indus-

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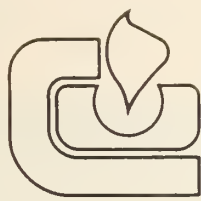
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VON RECOM EDITS FIRST BIOMATERIALS HANDBOOK

The vast field of biomaterials -- a term incorporating thousands of synthetic materials and objects that come in contact with blood or body tissues -- finally has been cataloged into a single reference book for physicians, engineers, industry, regulatory specialists and academicians.

"The Handbook of Biomaterials Evaluation" will be distributed this week by MacMillan Publishing Co. It was written by more than 50 leading experts in the field and edited by Andreas von Recum, head of the bioengineering department, who began the project and nurtured it through three years of writing and editing.

"Biomaterials is so new that there has been no in-depth textbook covering the entire field," von Recum said.

"However, universities that teach bioengineering, medical schools, industries that manufacture or market artificial implants or like devices, and agencies that regulate the use of such materials desperately need an all-inclusive reference book."

Biomaterials range from sutures used in routine surgery to the artificial heart. In between are implantable stomach tubes, lenses, infusion pumps, plastics used in cosmetic reconstruction surgery, containers for donated blood, and cardiopulmonary equipment that pumps blood during surgery.

Biomaterials consist of both natural and manufactured materials, such as ceramics, metals, polymers, or natural tissues that are preserved for transplant or altered for implant, such as corneas.

"The book is not about specific implants, but rather deals with general scientific aspects of a material -- its compatibility with human tissues, for example," von Recum said.

(Continued from page 1.)

trial participation in the project through donations of money, services or equipment. Project organizers already have a commitment from General Electric and plan joint activities with researchers from Sandia National Laboratories.

"I also have a Department of Defense instrumentation grant that came in this spring for about \$375,000, which I'll use to buy equipment for this and other advanced materials research," Rack said.

"From Clemson's standpoint, this contract helps our image in the field of composite materials.

"The major limiting factor on how far we can move in this field right now is faculty. We need to hire more, but it's hard to compete with industry," he said.

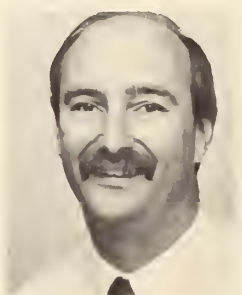
This is the second University Research Initiative grant Clemson has received through the highly competitive program, which funded 70 projects out of more than 1,000 proposals. The other award was a \$3.2 million Office of Naval Research contract for research in discrete mathematics and computational analysis.

CLEMSON TRUSTEES HEAR PROPOSAL FOR TEXTILES, ENGINEERING RESEARCH CENTER

The Board of Trustees was briefed Sept. 12 on a proposed textiles and engineering research facility that would provide a national focal point for textiles research and help revive the ailing industry.

The proposed facility would provide space and equipment needed for multi-disciplinary research programs in such areas as new materials and

(Continued on page 3.)



The Clemson University Newsletter is published for Dan Undersander, associate professor of agronomy at the Edisto Research and Education Center in Blackville, and for all members of the faculty and staff by the Division of University Relations.

University Newsletter Editor....Deborah M. Slice
University News Editor Jack A. McKenzie

We welcome your comments and suggestions. Call us at 656-4989 or write us at 103 Fike Center. DEADLINE is Sept. 24, noon, for Oct. 1 issue.

RESEARCH GRANT APPLICATIONS DUE IN NOVEMBER

Applications for University Research Grant Committee funds are due in the Office of University Research by Nov. 14.

The committee makes awards to new faculty, to faculty members redirecting research interests, and to faculty members in areas where research support is inadequate or non-existent.

Applications are accepted from faculty holding tenure/tenure-track positions (assistant professor, associate professor, professor) and the equivalent library faculty ranks.

For more information or to obtain application forms and instructions, contact the Office of University Research, E-102 Martin Hall, 656-2375.

UNIVERSITY AIRPLANE FLIES TO WASHINGTON ONCE A MONTH

Year-round air transportation from Clemson to Washington, D.C., is available on the first Tuesday of each month.

This service is set up strictly for the promotion of research, said Chris Thurston in the Office of University Research.

"Faculty members often need to visit agencies, such as the National Science Foundation, the National Institute of Health, the Department of Agriculture and others, to make contacts with potential research sponsors," Thurston said.

"This service saves both individuals and academic departments a lot of time and money."

To qualify as a passenger on a flight, a faculty member must be submitting a research proposal or pre-proposal to the potential sponsor and have a confirmed meeting with the agency.

Reservations are required for

(Continued from page 2.)

processes, advanced manufacturing systems, and advanced color and quality control systems, said Bob Gilliland, associate dean of engineering and special assistant to President Max Lennon.

Textiles and engineering and basic science are two areas of emphasis in Clemson's "Second Century Plan," the recently unveiled research and public service outline.

Gilliland said funding for the textiles and engineering research building would come from a combination of state, federal and textile-industry sources.

The Trustees were told federal grants would be sought to provide \$35 million for the building's construction, while \$15 million for equipment would come from state, private and foundation sources.

The presidents of Clemson, the University of South Carolina and the Medical University of South Carolina have jointly proposed that the state spend \$60 million a year for the next five years to boost South Carolina's research capabilities.

The schools would raise at least an equal amount in grants and private funding, according to the proposal, called the Research Investment Act, announced Aug. 29 by Lennon, USC President James Holderman and MUSC President James Edwards.

Trustees also were briefed on Clemson's capital improvements plan.

Projects to be funded by state bonds during the next two years include new facilities (\$10.2 million), renovations (\$8.5 million), asbestos abatement (\$6.1 million), modifications for the handicapped (\$3.7 million), major maintenance (\$1.2 million), and utility systems (\$500,000).

In other business the Board:

- was briefed on the Clemson University Forestry and Agriculture Network (CUFAN) computer system.

- received an audit report from Hugh Clausen, secretary of the Board.

- heard reports from students in key leadership roles on campus.

- ratified various mail ballot actions granting rights-of-way easements at the Sandhill Research and Education Center, approving trading 5.2 acres of University land not connected to other University property for 6.3 acres adjoining University land, and approving changes to the imported fire ant quarantine for submissions to the legislative council.

- heard reports from the Faculty Senate, the Extension Senate, IPTAY, the Clemson University Foundation and the Alumni Association.

(Continued on page 4.)

(Continued from page 3.)

the flights, filled by the first seven people who submit written requests to the Office of University Research.

The airplane leaves the Oconee County Airport at 7 a.m. and arrives in Washington around 9 a.m. It leaves Washington at 4 p.m. and returns to Oconee around 6 p.m.

For more information, call Thurston at 656-2375.

FINANCIAL AID OFFICE SCHEDULES MAKE-UP PERIOD FOR APPLICATIONS

Undergraduate students may apply for 1986-87 scholarships during the Financial Aid Office's make-up period through Nov. 1.

Applications are available in G01 Sikes Hall.

Students must submit a financial aid form for need-related scholarships at least four weeks before Nov. 1, but the deadline for all other scholarship applications is Nov. 1.

Students who applied for scholarships before Feb. 15 do not need to reapply, and students who have current financial aid forms on file in Sikes do not need to submit new ones.

For details, call the Financial Aid Office, 656-2280.

CAMPUS SCENES HIGHLIGHT COLOR SLIDE PACKAGE

A collection of 35 slides featuring the campus is available to employees for use on trips and for introducing visitors to the University.

The slides include scenes of the nine colleges, points of interest on campus and a brief look at Clemson's sports program.

The package is available for short-term loans or can be purchased for about \$21.

For details, contact the Communications Center at 656-3204.

CLEMSON'S PLANETARIUM: A PIECE OF THE UNIVERSE CAPTURED IN KINARD LABORATORY OF PHYSICS

by Rick Feltman

There is a place on campus where stars are created -- not the type found in Hollywood but the ones you wish upon, dream under and reach for.

The place is the planetarium found in 112 Kinard Lab, and the stars are part of a simulated night sky that can be created in the room.

The planetarium contains a 24-foot dome, a star projector, slide machines and a control panel, all designed to produce an unobstructed view of the night sky.

Tom Collins, associate professor of physics, presents planetarium shows to visiting groups.

"We can simulate the night sky from any place on earth at anytime of the year," Collins said.

Images of stars and planets are created by a star projector. This \$20,000 machine shines light through holes in a surrounding globe onto the dome-shaped ceiling above.

Each hole in the globe represents an actual star, and the room lights can be lowered slowly to simulate approaching nightfall.

"By referring to the sun's path," Collins said, "we can set the night sky for any particular month, and by using the angle of the horizon to the North Star we can observe from any place on earth."

The planetarium was built in 1961, and it is used primarily for presentations to astronomy and physics classes.

"In addition to our own classes in this department, we welcome classes from elementary and high schools. Last year the planetarium had more than 4,000 visitors," Collins said.

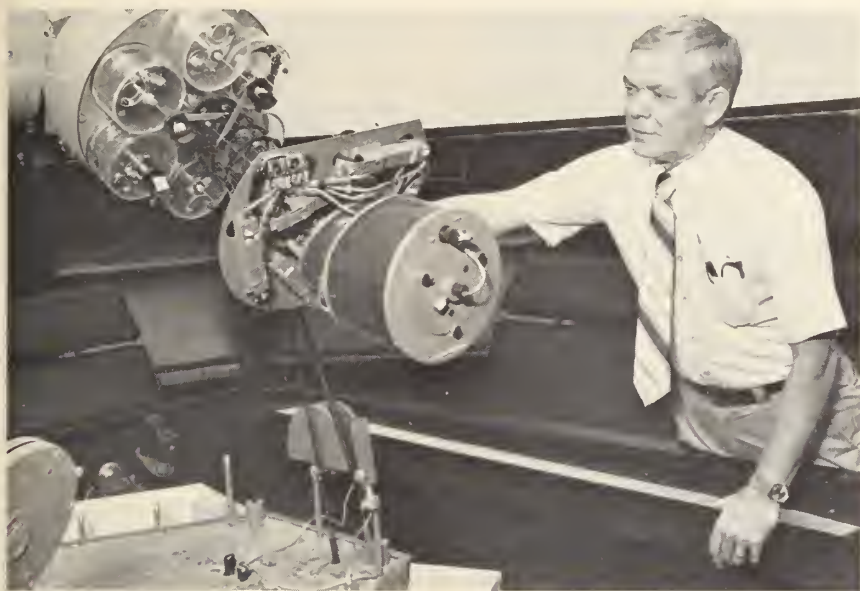
It is open 8 a.m.-4:30 p.m. Monday-Friday. Call the physics and astronomy department (656-3416) for more information or to make reservations for a group of visitors.

NURSE-PRACTITIONER PROGRAM GETS \$10,000 GRANT

A \$10,000 grant from the William Randolph Hearst Foundation to the University's school-nurse practitioner program will provide financial aid for participating nurses.

The program was set up as a way to improve health care for school-age children in South Carolina by providing nurses advanced training.

Established through a grant from the U.S. Department of Health and Human Services, the program requires students to attend two summers of courses at Clemson and intern between summers with a physician or nurse-practitioner.



STARMAKER -- Physics and astronomy Professor Tom Collins adjusts the instrument he uses to create stars. This star projector is a small one relative to other projectors -- "but it actually makes clearer star images than the larger, more expensive ones." (See story on page 4.)

DEPARTMENTAL NOTES

AGRICULTURAL EDUCATION

J.H. Daniels (Assoc Prof) received a \$4,914 grant from the S.C. State Department of Education to develop teaching materials that eliminate sex stereotyping in S.C. vocational programs.

CHEMISTRY

R.A. Abramovitch (Prof) presented:
-- an invited lecture, "Arylnitrenium Ions: Generation, Structure and Applications" at the Eighth IUPAC Conference on Physical Organic Chemistry in Tokyo Aug. 24-29. He also chaired a session on reactive intermediates at this conference.

-- "Dihydro- and Tetrahydropyridines by Novel Rearrangements" at the Sixth International Congress of Organic Synthesis, sponsored by IUPAC and held in Moscow Aug. 10-15. A.C. Siani (Grad Stu) and G. Huttner (Univ of Konstanz, West

Germany) co-authored the paper.

Prof. Abramovitch and M.M. Cooper, R. Jeyaraman, and G. Rusek (postdoctoral fellows) published "Remote Intramolecular Functionalization of Arylnitrenium Ions: Synthesis of Amino-Dihydrophenanthridines and Benzo [c]chromans" in Tetrahedron Letters, 27, (1986) 3705.

D.D. DesMarteau (Prof & Head) was a member of a review panel for the Office of Naval Technology Postdoctoral Fellowship Program, administered by the American Society for Engineering Education in Washington, D.C., Aug. 4.

K. Dill (Assoc Prof), H.K. Lannom (Grad Stu), A.A. Pavia (Prof, Centre Universitaire d'Avignon, France), M. Denarie (Grad Stu) and J.M. Lacombe (Res Assoc, CUA) published "¹³C-N.M.R. Study of the Structure and the Metal-Ion Binding Sites of the Neuropeptides Composed

of L-Asp and L-Glu" in the International Journal of Peptide and Protein Research, 28, 1986, 67-78.

J.D. Peterson (Prof and Assoc Dean), K.J. Brewer (Grad Stu), W. R. Murphy Jr. (postdoctoral fellow), K.J. Moore (Former Grad Stu) and E.C. Eberle (Former Grad Stu) published "Visible-light Production of Molecular Hydrogen by sensitization of a Cobalt Dihydride Complex" in Inorganic Chemistry, 25, No. 14 (1986) 2470.

Prof. Peterson presented an invited paper, "Electronic Interactions in Polymetallic Cluster Compounds," at the Gordon Research Conference on Electron Donor Acceptor Interactions at Plymouth State College in New Hampshire Aug. 11-15.

He also was awarded an Alexander von Humboldt Research Fellowship and will spend seven months at the University of

(Continued on page 6.)

(Continued from page 5.)

Regensburg in West Germany.

ELECTRICAL AND COMPUTER ENGINEERING

R.C. Harley (Vstg Prof) presented "Design of An Optimal Reticulation System for a Residential Area" at the 1986 IEEE Conference Sept. 16-22 in Ahaheim, Calif. The paper was co-authored by E. Ben-Dov (Israel Electric Corp.) and W.J. Seymour (South Africa).

M.A. Bridgwood (Asst Prof) presented "Breakdown Mechanisms in Mos Capacitors Following Electrical Overstress" at the EOS/ESD Symposium Sept. 20-26 in Las Vegas, Nev.

ELEMENTARY AND SECONDARY EDUCATION

D.L. Fuhr (Assoc Prof) spoke during August meetings of the Greenwood School District #50, the Lexington School District #1 and the Spartanburg School District #1. In June, he was the keynote speaker at South Carolina's School Administrators Conference in Myrtle Beach.

Abstracts of Prof. Fuhr's presentations on "How to Play the Game of Educational Leadership and Win" and "How to Keep the Students on Your Team" have been requested by the Educational Resources Information Center at the University of Oregon for national distribution.

W.W. Pennscott (Prof), F. Ingle (counselor, Piedmont Technical College) and A. Atkinson

(counselor, York Technical College) published "The Effects of Counseling on Student Developmental Task Inventory Scores of Developmental Studies Students" in The College Student Affairs Journal, 6, No. 4 (spring 1986).

ENGLISH

S. Duffy (Asst Prof) and B.K. Duffy (Assoc Prof) published "Theatrical Responses to Technology During the Depression: Three Federal Project Plays" in Theatre History Studies, 6 (1986) 143-164.

R.W. Moran (Prof & Asst Dean) published "The Criticism of Richard Eberhart" in Negative Capability, 6, Nos. 2 & 3 (1986) 71-78.

K.W. Roberts (Inst) published "Now, The Decision Is Yours: A Role Play Exercise in Attitudes Toward Aging" in Florida Speech Communication Journal, 14 (1986) 29-32.

D.C. Tillinghast (Assoc Prof) gave a poetry reading at the New Orleans Poetry Forum May 4; conducted a writing workshop at Washington College in Chestertown, Md., July 25-31; and published the poem "It Occurs to Us" in the anthology Wind, Weather, an Ana (Syracuse: Tamarack Press, 1986) 21.

EXTENSION HOME ECONOMICS

G. Couchman (Family Resource Management Spec) presented "Economics of Decisions: Factors Effecting Employment of Midlife Women" at the 1986 Annual Home Economics Association

meeting in Kansas City, Mo., June 24.

FORESTRY

R.A. Harris (Assoc Prof), J.W. McMinn (U.S. Forestry Service) and F.A. Payne (Univ of Kentucky) published "Calculating and Reporting Changes in Net Heat of Combustion of Wood Fuel" in Forest Products Journal, 36, No. 6, 57-60.

J.L. Haymond (Asst Prof) presented "Improving Mixed Pine-Hardwood Forests" at the meeting of the Society of American Foresters' S.C. Division in Santee June 26.

HISTORY

R.M. Golden (Prof) reviewed Understanding Popular Culture: Europe from the Middle Ages of the Nineteenth Century, Stephen Kaplan, ed., and Huguenot Heritage: The History and Contribution of the Huguenots in Britain by Robin D. Gwynn in Religious Studies Review, 12 (January 1986) 74 and 76.

A. Grubb (Asst Prof) published two entries, "The Prefects" (pp 803-804) and "The Law of the Septennate" (p 929), in Historical Dictionary of the Third Republic, 1870-1940, edited by P.H. Hutton.

T. Kuehn (Assoc Prof) reviewed Disputes and Settlements, John Bossey, ed., in Journal of Modern History, 58 (1986) 274-276.

R. Waller (Prof & Dean) reviewed First Lady: The Life of Lucy Webb Hayes by Emily Opt

(Continued on page 7.)

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Peer in Illinois Historical Journal, 78 (Winter 1985) 319-320.

J.R. Wunder (Prof & Head) presented "Law and the Chinese in the American Southwest, 1840s-1902" at the annual meeting of the American Historical Association's Pacific coast branch in Honolulu Aug. 15.

INDUSTRIAL ENGINEERING

J.A. Chisman (Prof) received a Fulbright scholarship to teach and conduct research in Ireland at the National University of Ireland-Cork College from January through August 1987.

LANGUAGES

P.R. Heusinkveld (Asst Prof, Spanish) published "La Nueva Alegoria de Juan Jose Arreola" in Revista de Critica Literaria Latinoamericana, (July 1986).

H.M. Riley (Head & German Prof) received an IEH travel grant for research in Vienna, Austria, for the summer of 1986.

R. Willingham (Instr, French) published:

-- "Renovating the Foreign Language Program at Black Colleges and Universities" in The Triot (spring 1986).

-- "Future Requirements for Successful Foreign Language Requirements at Black Colleges and Universities" in Perspect (spring 1986).

LIBRARY

M.N. Sly (Asst

Librarian & Archivist) presented "Access to Congressional Case Files" at the annual meeting of the Society of American Archivists in Chicago Aug. 30. She also was appointed to the steering committee of the Manuscript Repositories Section and will continue to serve on the Copyright Committee.

MECHANICAL ENGINEERING

D.E. Beasley (Asst Prof) and R.S. Figliola (Assoc Prof) presented "Analysis of a Heat Flux Probe" at the Eighth International Heat Transfer Conference in San Francisco Aug. 17-22.

J.M. Kennedy (Asst Prof), J.G. Goree (Prof) and W.B. Fichter (NASA Langley Research Center), presented an invited paper, "Opening of an Interface Flaw in a Layered Elastic Half-Plane under Compressive Loading," at the 23rd Annual Meeting of the Society of Engineering Science in Buffalo, N.Y., Aug. 25-27.

NEWS SERVICES

D.J. Crockett (Radio-TV Editor) was elected treasurer of the College News Association of the Carolinas at the group's meeting in Myrtle Beach Aug. 8. CNAC is a two-state organization of college and university public relations professionals.

PARKS, RECREATION AND TOURISM MANAGEMENT

F.A. McGuire (Assoc Prof) and E.R. Adams (Grad Stu) published "Is Laughter the Best Medicine? A Study of the

Effects of Humor on Perceived Pain and Affect" in Activities, Adaptation and Aging, 8.

B.J. Mihalik (Assoc Prof) received a \$34,998 grant from the National Park Service to develop a government document addressing environmental law, federal, state and local environmental regulations, and the use of laws and regulations as tools for protecting park resources.

Prof Mihalik, F.A. McGuire (Prof) and J. T. O'Leary (Prof) presented "Sports Involvement Across the Life Span" at the National Recreation and Park Association conference in Los Angeles.

PLANT PATHOLOGY AND PHYSIOLOGY

O.W. Barnett (Prof) served as program chairman of the local organizing committee for the Workshop on Epidemiology of Plant Virus Diseases in Orlando, Fla., Aug. 6-8. He also is a member of the Plant Virus Disease Epidemiology Committee of the International Society of Plant Pathology.

G.C. Kingsland presented two papers at the annual meeting of the American Phytopathological Society in Orlando, Fla., in August:

-- "Occurance of Aspergillus flavus From Two Soil Types and From Grain of Corn from These Soils in South Carolina"

-- "Relationships Between Planting Dates,

(Continued on page 8.)

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Incidence of Maize Dwarf Mosaic Virus Strain A and Yield of Sorghum in South Carolina," co-authored by E.F. McClain (Assoc Prof, agronomy and soils).

S.W. Scott (Assoc Prof) presented:

-- "Some Facets of the Ecology of Prunus Necrotic Ringspot Virus in Peach Trees in South Carolina," co-authored by Prof. Barnett and R. B. Baker (Ag Science Assoc), at the Workshop on Epidemiology of Plant Virus Diseases in Orlando, Fla., in August.

-- a poster, "Monoclonal Antibodies to Clover Yellow Vein and Bean Yellow Mosaic Viruses" with M.R. McLaughlin and A.J. Ainsworth at the annual meeting of the American Phytopathological Society in Orlando, Fla., in August.

D.P. Shepard (Grad Asst) presented "Epiphytic Behavior of Xanthomonas campestris pv. pruni on Peach and Plum," co-authored by E.I. Zehr (Prof), at the annual meeting of the American Phytopathological Society in August.

PSYCHOLOGY

T.R. Alley (Asst Prof) published a chapter, "An Ecological Analysis of the Protection of Primate Infants," in Event Cognition: An Ecological Perspective, edited by V. McCabe and G.J. Balzano.

Prof. Alley presented "On the

Compatibility of Visual Illusions, Pragmatic Realism, and Direct Perception" at the 78th Annual Meeting of the Southern Society for Philosophy and Psychology in Knoxville, Tenn., March 27.

P. Connor-Greene (Asst Prof) published "The Role of Counseling in the Treatment of Genital Herpes" in Journal of American College Health (June 1986) 286-287.

Prof. Connor-Greene presented "The Psychological Effects of Bulimia" at the May S.C. Psychological Association meeting in Hilton Head.

R.H. Nowaczyk (Assoc Prof), A.C. Connor (Lect, Computer Science), D.E. Stevenson (Assoc Prof, Computer Science) and E.O. Hare (Lect, Computer Science) presented "Developing a Prediction Equation for Success in Introductory Level Computer Science Courses: A First Attempt" at the 1986 National Education Computing Conference in San Diego.

N.R. Schultz (Assoc Prof), M.F. Elias and M.A. Robbins (Univ of Maine), D.H.P. Streeten and N. Blakeman (SUNY Upstate Medical Center) published "A Longitudinal Comparison of Hypertensives and Normotensives on the Wechsler Adult Intelligence Scale: Initial Findings" in the Journal of Gerontology, 41 (1986) 169-175.

Prof. Schultz, Elias, Robbins and Streeten also published

"A Longitudinal Study of Neurophysical Test Performance for Hypertensive and Normotensive Adults: Initial Findings" in the Journal of Gerontology, 41 (1986) 503-505.

Prof. Schultz and D. Moore (Asst Prof) published "The Loneliness Experience of College Students: Sex Differences" in Personality and Social Psychology Bulletin, 12 (1986) 111-119.

SEED CERTIFICATION

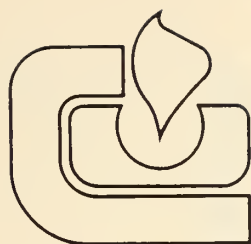
J.O. Black Jr. (Head), chairman of a committee appointed by the Association of Official Seed Certifying Agencies to recommend revisions of seed labeling regulations, recommended revisions which were approved by AOSCA at its 68th Annual Meeting in Quebec City Aug. 10-14.

SOCIOLOGY

B.J. Vander Mey (Assoc Prof) co-authored Incest as Child Abuse: Research and Applications (Praeger Publishers: 1986)

TEXTILES

M.D. Whitley (Instr) moderated an American Production and Industry Control Society Conference for the Textile and Apparel Industry in Atlanta July 14-15. He also presented "A Proposed Model Framework for Computer-Aided Process Planning and Production Scheduling in Textile and Apparel Manufacturing Facilities" at the conference.



Events

INFORMATION FOR THE FACULTY AND STAFF OF CLEMSON UNIVERSITY

This calendar is prepared up to a month in advance. Please send in writing to the MASTER CALENDAR EDITOR, 103 Fike Center, any campus event that should be listed. You may also want to call 656-4993 to check the UNIVERSITY MASTER CALENDAR for possible scheduling conflicts. (Call the number listed in each entry for more information.)

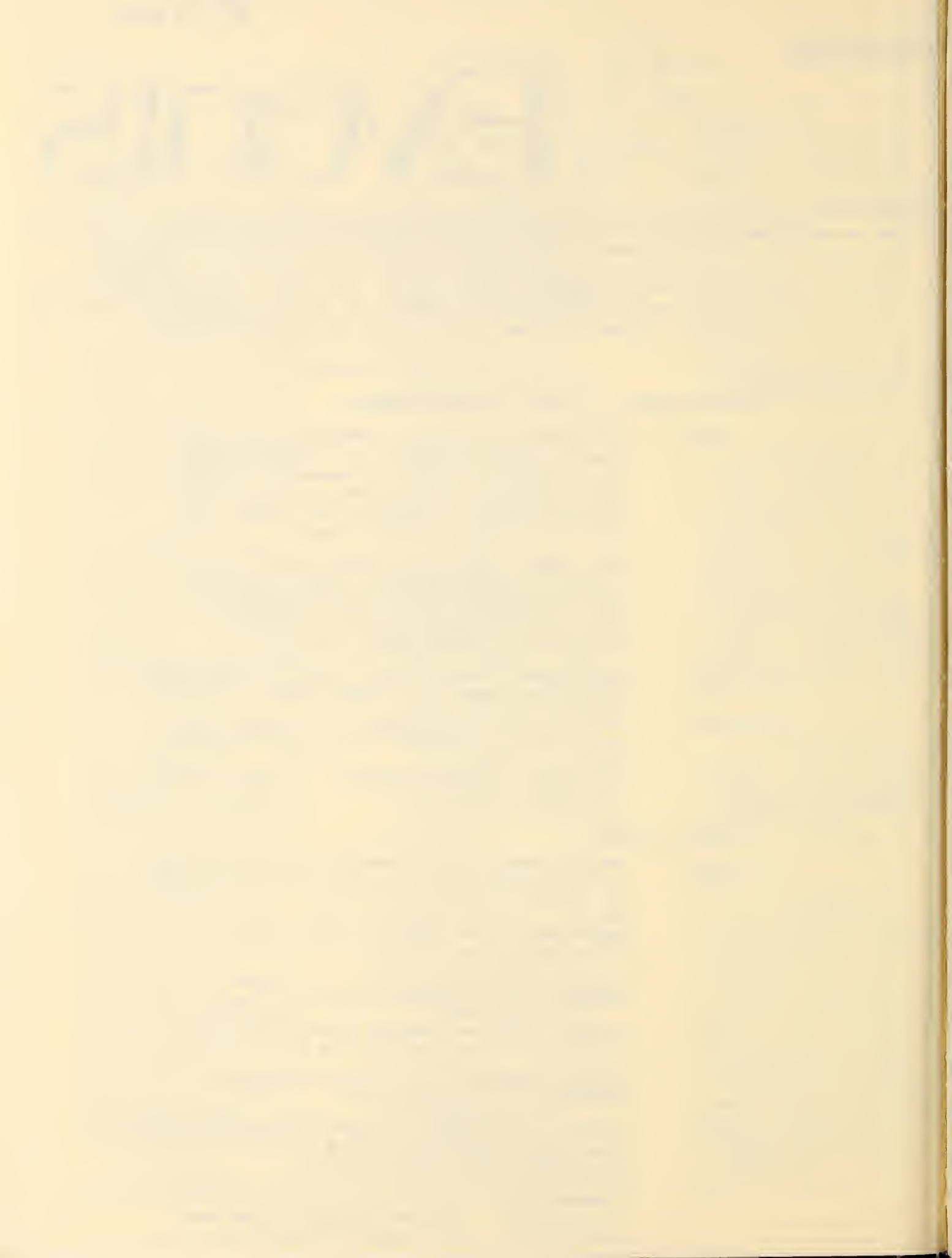
September 26-October 3

CONFERENCES, LECTURES AND SHORT COURSES

- Sept. 29 President's Fall Honors Convocation: "America's Stake in the Middle East" by John West, former S.C. governor and former ambassador to Saudi Arabia. Sponsored by the Honors Program (656-4762), 2:30 p.m., 200 Hardin Hall and 8 p.m., Lyles Auditorium, Lee Hall, free.
- 30 President's Fall Honors Convocation: "Politics in South Carolina and Saudi Arabia" by John West. Sponsored by the Honors Program and political science department (656-4762), 3:30 p.m., 108 Strode Tower, free.
- 30- Conference: Fabric Design. Sponsored by Professional Development (656-3990), Ramada Inn, \$495.
- Oct 2
- Oct. 1 Meeting: "Good Teaching: The Student's View." For new faculty members. 12:15 p.m. (656-3022).
- 1 New Faculty Luncheon Meeting. 12 p.m., Palmetto Ballroom, (656-3022).

FILMS AND MUSIC

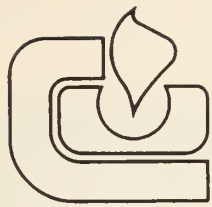
- Sept. 26-27 Movie: "Down & Out in Beverly Hills." Sponsored by University Union (656-5832), Y-Theatre, \$1.50.
- 28 Movie: "The Gods Must Be Crazy." Sponsored by University Union, 7 & 9:15 p.m., Y-Theatre, free with University I.D.
- 29 Movie: "The Emerald Forest." Sponsored by University Union (656-5832), 8 p.m., Y-Theatre, \$1.
- 30 Movie: "Nightmare On Elm Street." Sponsored by University Union (656-5832), 8 p.m., Y-Theatre, \$1.
- 30 Video: "Grease." Sponsored by University Union (656-5832), 8 p.m., Edgar's.
- 30 Clemson Club Meeting. Clemson University President Max Lennon, featured speaker. Sponsored by Alumni Association (656-2345), Anderson.
- 30 Chamber Music Series: Tony and Mary Ann Lenti, duo-pianists. Sponsored by music department (656-3043), 8 p.m., Daniel Hall Auditorium, free.



- Oct. 1 Film: Education in Japan. Sponsored by College of Architecture and Japanese Consulate General (656-3081), 3:30-4 p.m., 100 Lee Hall, free.
- 1 Movie: "Paris, Texas." Sponsored by College of Liberal Arts and University Union (656-5832), 7:30 p.m., Y-Theatre, \$2.
- 1-31 Film Festival. Documentation on immigration and feature films dealing with immigration and minority groups. Sponsored by Statue of Liberty Commemoration Committee (656-3905). (TENTATIVE)
- 2-4 Movie: "F/X." Sponsored by University Union (656-5832), 7 & 9:15 p.m., \$1.50.

OTHER EVENTS

- Sept. 26-27 Clemson Players Production: "The Curious Savage" by John Patrick, 8 p.m., Daniel Hall Auditorium, (656-3043), \$2 public, \$1 faculty and staff, students free.
- 27 Football: Georgia Tech, 1:30 p.m., away. (656-2101).
- 27 Trip: Road trip to Georgia Tech football game. Sponsored by University Union Travel Committee (656-5832), \$25 includes tickets and transportation.
- 28 Soccer: Duke, 2 p.m., away (656-2101).
- 28 "2nd Annual Clemson Walk Against Hunger." Sponsored by Campus Ministers Association (654-5071), 1:30 p.m., St. Andrew's Catholic Church.
- 29- Oct 13 Exhibit: "Visual Arts Faculty Show." Sponsored by College of Architecture (656-3081), 9 a.m.-4:30 p.m. weekdays; 2-5 p.m. Sundays. Rudolph E. Lee Gallery, Lee Hall, free.
- 30 Placement Orientation for all majors. Sponsored by Cooperative Education and Placement (656-2152), 9:30 a.m., Senate Chambers.
- Oct. 1 Soccer: Furman, 3:30, away (656-2101).
- 3 University Honors Committee Meeting, 2 p.m., 102D Tillman.
- 3 Partial Solar Eclipse Projection. Sponsored by Clemson Area Amateur Astronomers (656-5593), 2-4:30 p.m., Kinard Physics Building, free.
- 3-4 Parents' Weekend. Sponsored by Alumni Council (656-2345). Special and educational activities for parents of freshmen.
- Continuous YMCA-sponsored classes in women's and men's fitness, youth fitness, aerobics, exercise, Jazzercise, social dancing, Middle Eastern dance, swimming, gymnastics, lifesaving, and after-school day-care programs (656-2460).



OCT 1 1986

Newsletter

Oct. 1, 1986
Vol 26 No 7

INFORMATION FOR THE FACULTY AND STAFF OF CLEMSON UNIVERSITY

HAYLIFT OPERATION MOVES TO BARRE HALL

Clemson's part of the haylift operation has been moved from Hay Central in Columbia to the Extension administrative offices in Barre Hall.

Since farmers across the nation began giving free hay to Southeastern farmers in August, the Extension Service has distributed more than 50,000 bales of hay to more than 8,000 South Carolina farmers, and more hay arrives daily.

ART EXHIBITION DEADLINE SET FOR OCT. 31

Oct. 31 is the deadline for entering artwork in the Third Clemson National Print and Drawing Exhibition to be held Feb. 16-March 16, 1987.

Hosted by the College of Architecture, the exhibition is open to artists throughout the United States.

It will be juried by New York City artist Terence La Noue.

Each artist can submit three works by slide for the first jurying. Slides are due by Oct. 31, and works accepted for the second jurying are due Jan. 16, 1987.

All artwork must be done on paper and can include any print or drawing media except photographs, unless photographs are used in traditional print or drawing techniques.

The entry fee is \$15.

The exhibition will be sponsored by the College of Architec-

(Continued on page 2.)

UNIVERSITY REGISTERS CENTENNIAL WORDMARK FOR COPYRIGHT

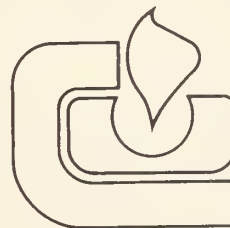
The Clemson University Centennial wordmark, a graphic representation of the University's 100th anniversary observance, has been registered for copyright.

Adopted by the Board of Trustees Jan. 11, the wordmark (shown below) will be used on all University publications, promotional materials and memorabilia produced during the 1988-89 Centennial celebration.

"By designing the wordmark around the existing University symbol (CU and a flame), we were able to maintain the graphic identity system we've established over the last dozen years, yet present a fresh approach to saying 'Clemson Centennial,'" said Debbie Dunning, director of publications and graphics services and chair of the Centennial Publications Committee.

The Centennial theme is "Clemson University: Tradition and Vision."

Use of the wordmark will be coordinated through the department of publications and graphics services. For more information, call Dunning at 656-2468.



CLEMSON
UNIVERSITY
CENTENNIAL
1889-1989

(Continued from page 1.)

ture, the Clemson Architectural Foundation and the S.C. Arts Commission.

For more information, contact Tom Dimond, associate professor of visual studies in the College of Architecture, 656-3081.

EXTENSION SERVICE OFFERS TWO NEW PLANTING GUIDES

From broccoli to Christmas trees to soybeans, two new Extension Service publications offer information for everyone interested in planting a home garden or a crop this fall or next year.

"The 1986 Fall Planting Guide" lists which varieties of alfalfa, oats, barley, wheat, rye and triticale farmers should plant this fall and the recommended times to plant.

"1987 Recommended Varieties for South Carolina" gives Clemson Extension's complete recommendations on varieties of turfgrasses, Christmas trees, and field, vegetable, fruit and nut crops.

Free copies of these publications are available from the local Extension office or from the Bulletin Room, 83 Poole Agricultural Center, on campus.

STUDENT ALUMNI COUNCIL TO HOST NATIONAL CONFERENCE

Representatives of more than 200 colleges and universities will travel to Clemson next year for the National Student Alumni Council Conference.

Clemson was chosen to host the '87 conference during this year's national meeting at the University of California at Santa Barbara.

The Student Alumni Council sponsors programs that bring students and alumni together, help attract top students to Clemson, and recognize the University's outstanding teachers.

MYTHS ABOUT SEXUAL HARASSMENT

[Editor's Note: As part of an effort to provide information to the University community on sexual harassment, the Newsletter is running a series of articles prepared by the Office of Human Resources. Here is the fourth in the series.]

There are many myths about sexual harassment, and most of them place the blame of harassment on the victim. The myths perpetuate the idea that victims invite harassment, that they deserve it.

The fact, however, is that a person is responsible for his or her behavior.

Placing the blame for harassment on the victim is similar to placing the blame for rape on the victim. No one forces a person to rape or to harass. They do it because they want to do it.

Some common myths are:

MYTH: Sexual harassment happens to women who are provocatively dressed.

FACT: Studies show that characteristics such as age, race, ethnic identity, clothing, hair color and body shape do not influence an offender's decision to harass. People are harassed because of their gender and because they are regarded as being in a less powerful position than the harasser.

MYTH: Sexual harassment is harmless. Women who object have no sense of humor, and are prudish or feministic.

FACT: Harassment is humiliating. Consider how it would feel having someone you are not interested in force intimacy on you, and for this person to have the power to make decisions which will affect your livelihood or academic status.

(Continued on page 3.)



The Clemson University Newsletter is published for Edna Craig, Housing's Custodian of the Month for July, and for all members of the faculty and staff by the Division of University Relations.

University Newsletter Editor....Deborah M. Slice
University News Editor Jack A. McKenzie

We welcome your comments and suggestions. Call us at 656-4989 or write us at 103 Fike Center. DEADLINE is Oct. 1, noon, for Oct. 8 issue.

RESEARCH SHOWS OVERUSE OF VITAMIN B CAN BE HARMFUL

Taking Vitamin B6 in excessive quantities can cause severe damage to the human nervous system and bring death in extreme cases, food science Professor Donald Turk warns.

Doses of the vitamin over and above that recommended by federal health officials can short-circuit the human nervous system, causing incoherence, loss of sense of touch and balance, and paralysis, he said.

"Actually, taking extreme amounts can be fatal," Turk said. "That's what happened in our experiments with rats."

Laboratory experiments in the food science department confirmed earlier scientific studies that Vitamin B6 abuse does severe but not irreversible damage to the human body.

In lab tests, rats were fed excess Vitamin B6 with their regular food.

"The larger the dose of the vitamin, the more quickly symptoms showed up," Turk said.

At the same time, the scientist noted, the smaller, longer-term dosage could prove more harmful and more likely to lead to permanent damage.

Human requirements for Vitamin B6 are very small -- only two milligrams per day to meet recommended daily allowances for sound nutrition.

Some people consume 250 times that amount for varying reasons, and it may make them ill because the vitamin has reached the point of becoming toxic, Turk said.

Sufficient quantities of the water-soluble vitamin are probably present in a balanced diet, Turk said, so there is no need to take supplements unless advised to do so by a physician.

People have taken the vitamin for various reasons, including for treatment of pre-menstrual syndrome, bodily swelling and mental problems, Turk said.

(Continued from page 2.)

MYTH: If the victim ignores the sexual harassment, it will go away.

FACT: No, it won't. Generally, a harasser is a repeat offender who sees a passive response as an invitation to continue.

MYTH: If a woman says "no" loudly and clearly, the behavior will stop.

FACT: Unfortunately, some people respond to "no" as being part of the "game" and not a good reason to stop.

MYTH: Women like and need to be flattered to feel worthwhile.

FACT: Women want to be respected as professionals while on the job and as able students in an academic environment. Women want to be able to choose with whom they share a relationship.

For more information about resolving a sexual harassment problem or about available workshops and printed material, contact Jane Knapp in the Office of Human Resources (656-3181). All discussions relating to a sexual harassment problem are confidential.

Next article: SEXUAL HARASSMENT AND THE EMPLOYER.

MAPS AVAILABLE FOR JOGGERS; RECREATION CENTER REVISES HOURS

• Twelve campus jogging courses are illustrated in a free pamphlet distributed by the department of intramural sports.

The pamphlet contains information about indoor courses and maps of larger, outdoor trails.

For more information, call the intramural sports office at 656-2116 or visit the office in 251 Fike Center.

• Some Fike Recreation Center facilities will be closed when athletic events are scheduled.

Fike is closed during all home football games. Tennis court lights will be turned off on days when soccer games are scheduled: Oct. 8, 15, 24; Nov. 5.

During varsity football practice, the practice field jogging loop will be closed.

The swimming pool will be closed on these dates for varsity swim meets: Oct. 18, Nov. 14 after 2 p.m., Nov. 15, Nov. 20 after 12 p.m., Nov. 29, Nov. 30, Jan. 7 after 4 p.m., Jan. 16 after 4 p.m., Jan. 17, Jan. 23 after 4 p.m., Jan. 24, Jan. 30 after 4 p.m., and Jan. 31.

PROFESSOR FILLS FALL WITH ACC FOOTBALL

by Rick Feltman

When George Carter, professor of plant pathology, attends a football game, he pays close attention to every play. He has to. He is an official for Atlantic Coast Conference football games.

Nearly every Saturday of the football season he is on a field enforcing the rules of the game. But officiating involves much more than this.

"ACC officials must take physical exams, a stress test, rules exams and mechanics exams," Carter said.

"Officials have to possess a thorough knowledge of football and must have the physical stamina to officiate an entire game."

There usually are 40 to 50 rule changes every year the officials must keep up with.

Carter said problems arise when fans doubt an official's knowledge of the rules.

"Hostility toward officials often begins when the fans assume they know more about the rules," he said.

Carter doesn't have to worry about

Clemson fans being upset with him because he can't officiate Clemson games.

"An official cannot work a game played by a team from a university he attended or located in the city where he works," Carter said.

This rules out games at Clemson and at Wake Forest, where he received his master's degree.

But wherever other ACC games are held, Carter may be there.

The supervisor of football officials assigns him to a game, and he must arrive at the site the night before the game.

"We review each team's past games, so we are familiar with its offensive formations and defensive sets," Carter said. "When we enter a game, we are prepared."

"Our primary job is to protect players from injury. We also try to prevent a team from having unfair advantage over another because of rule violations."

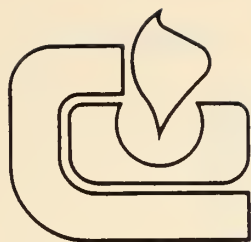
All the exams and preparations for a game can be a lot of work, but Carter enjoys what he does.

"I have a lot of contact with players and others associated with the games. I enjoy getting to know them and working with them," he said.

"Some people like to fish or hunt. Officiating is my hobby."



George Carter



SEP 30 1986

Events

 INFORMATION FOR THE FACULTY AND STAFF OF CLEMSON UNIVERSITY

This calendar is prepared up to a month in advance. Please send in writing to the MASTER CALENDAR EDITOR, 103 Fike Center, any campus event that should be listed. You may also want to call 656-4993 to check the UNIVERSITY MASTER CALENDAR for possible scheduling conflicts. (Call the number listed in each entry for more information.)

October 3-10

CONFERENCES, LECTURES AND SHORT COURSES

- 6-8 Short Course: "Beginning Shagging." Sponsored by University Union (656-2461), 7:15-8:30 p.m., \$10.
- 7 Short Course: "Cake Decorating." Sponsored by University Union (656-5832), \$15.
- 7-8 Conference: Air-Jet Texturing. Sponsored by Professional Development (656-2200), Ramada Inn, \$425.
- 8 Short course: "Snorkeling." Sponsored by University Union (656-2461), 7-9 p.m., \$15.

FILMS AND MUSIC

- 5 Movie: "Splash." Sponsored by University Union (656-2461), 7 & 9:15 p.m., Y-Theatre, free with University I.D.
- 6 Movie: "Goldfinger." Sponsored by University Union (656-2461), 8 p.m., Y-Theatre, \$1.
- 8 Film: Japanese Labor Relations. Sponsored by College of Architecture and Japanese Consulate General (656-3081), 3:30-4 p.m., 100 Lee Hall, free.
- 8 Movie: "Kagemusha." Sponsored by College of Liberal Arts and University Union (656-2461), 7:30 p.m., Y-Theatre, \$2.
- 8 Performing Artist Series: Charleston Ballet. Sponsored by University Union and Alumni Association (656-2461), 8 p.m., Tillman Hall Auditorium, \$4 students and senior citizens, \$7 public.
- 9 Entertainers: Robin and Linda Williams. Sponsored by University Union (656-2461), Edgar's, \$1.
- 9-11 Movie: "Out of Africa." Sponsored by University Union (656-2461), 7 & 9:45 p.m., Y-Theatre, \$1.50.

OTHER EVENTS

- 3 Partial Solar Eclipse Projection. Sponsored by Clemson Area Amateur Astronomers (656-5593), 2-4:30 p.m., Kinard Physics Building, free.
- 3 University Honors Committee Meeting, 2 p.m., 102D Tillman.
- 3-4 Parents' Weekend. Sponsored by Alumni Council (656-2345). Special and educational activities for parents of freshmen.
- 4 Football: The Citadel (Parents' Day), 1 p.m., Death Valley. (656-2101).
- 4 Agriculture Open House. Sponsored by College of Agricultural Sciences (656-3013), 8:30 a.m.-noon, P&A Building, free.
- 5 Soccer: Wake Forest, 2 p.m., away (656-2101).
- 5 "Straight Talk" Television program. Sponsored by University Relations (656-3859), 10 a.m. & 10:30 p.m., WAXA-TV (Channel 40).
- 5 Whitewater Rafting. Sponsored by University Union (656-2461).
- 6 Placement Orientation for all majors. Sponsored by Cooperative Education and Placement (656-2152), 9:05 a.m., Senate Chambers.
- 7 Reception for faculty and staff who have joined the University during the past year. Sponsored by the University Club. 4:30 p.m., Alumni Center, \$2 for University Club members. For more information, call Campbell Martin (654-5076).
- 8 Soccer: Wofford, 8 p.m., Riggs Field (656-2101).
- 8 Meeting: Women in Higher Education. Jean Tulli, founder and president of Helping Hands, featured speaker. Noon, Golden Coral restaurant.
- 8-9 Board of Visitors Fall Meeting. Various times and locations, Clemson (656-3867).
- 9 Meeting: Rhodes Selection Committee (656-4762).
- 10- Weight Control Program. Sponsored by College of Nov 21 Nursing (656-3076), noon-1 p.m. Fridays, Nursing Center.
- Continuous YMCA-sponsored classes in women's and men's fitness, youth fitness, aerobics, exercise, Jazzercise, social dancing, Middle Eastern dance, swimming, gymnastics, lifesaving, and after-school day-care programs (656-2460).

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INFORMATION FOR THE FACULTY AND STAFF OF CLEMSON UNIVERSITY

UNIVERSITY PARTICIPATES NEXT WEEK WORLD FOOD DAY TELECONFERENCE

The University will participate again this year in the third annual World Food Day Teleconference originating in Washington, D.C., Oct. 16.

Faculty and staff are welcome to attend the conference at noon in the Clemson House Purple Room, said Parr Rosson, assistant professor of agricultural economics and rural sociology.

The theme of the conference is "Hunger Amidst Plenty."

A telecast from Washington, featuring a panel discussion on international hunger issues, will be broadcast by satellite at noon throughout the United States and Canada.

At 1 p.m., a panel of four South Carolinians will discuss statewide and nationwide food and hunger issues.

After the local conference, a call-in question and answer session will provide time for local participants to discuss issues with the panelists in Washington.

Call Rosson at 656-3460 for more information or if you plan to attend the teleconference.

PRE-RETIREMENT SEMINAR SET FOR OCT. 15, 16

A pre-retirement education seminar for employees within 15 years of retirement eligibility will be sponsored Oct. 15-16 by the Personnel Division.

Topics will include retirement and Social Security benefits, financial planning and

(Continued on page 2.)



ON THE WAY -- United Way campaign coordinator Frank Mauldin measures the amount of donations to date from University employees as President Max Lennon and last year's coordinator, Dr. Corinne Sawyer, look on. Mauldin hopes the thermometer on Bowman Field will read more than \$50,000 by Oct. 16.

CLEMSON CELEBRATES LADY LIBERTY'S BIRTHDAY, NATIONAL HIGHER EDUCATION WEEK THIS MONTH

Those who missed the July Fourth bash for the Statue of Liberty will get a second chance to celebrate the lady's 100th birthday.

Starting Oct. 15 and continuing through the end of the month, the University will observe the statue's restoration and rededication.

The 100th anniversary of the statue's unveiling is Oct. 28.

Events will feature themes of liberty and freedom, said Lynn Craig, professor of architec-

(Continued on page 2.)

(Continued from page 1.)

investments, legal affairs, insurance, and health and leisure.

Employees and their spouses can make reservations on a first-come, first-served basis by calling Debbie King at 656-3367.

The next pre-retirement seminar is March 24-25.

VOLUNTEERS NEEDED TO LEAD BOY SCOUTS' EXPLORER POSTS

Volunteers are needed to help lead area groups of the Boy Scouts of America Explorer program.

Members of the faculty and staff who are interested in working with Explorer Scouts should contact Jack Stevenson in the Honors Office (656-4762) or Clyde Carter, district scouting executive (233-8363), by Oct. 16.

A meeting for interested leaders and scouts will be held Oct. 28 at 7 p.m. in the Palmetto Room.

More than 2,000 young people in Oconee County and the Clemson area are interested in a variety of Explorer programs, including educational activities in agriculture, business, computers and engineering, athletics and health.

The University will provide leadership and facilities for meetings and programs.

CLEMSON SCORES AGAIN WITH ENTOMOLOGY STUDENT AWARD

Clemson's entomology students continue to dominate competition for a regional award given for outstanding achievements and contributions, a sign department head Sid Hays says that "we're doing something right."

Steven W. Hamilton, a graduate student working on his doctorate in entomology, received the John Henry Comstock Outstanding Graduate Student Award from the

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(Continued from page 1.)

ture and co-chairman of the faculty-staff-student committee organizing the festivities.

Among the events scheduled are a Statue of Liberty/Ellis Island exhibition, a chamber music concert featuring the music of immigrant composers, films, an International Student Association dinner, a panel discussion on immigration policy and a lecture by Richard Heyden, the architect who worked on the statue's restoration.

In addition, the theme of liberty will be incorporated into the Children's Literature Symposium, Tigerama and halftime ceremonies during the Clemson-Duke football game.

The University's celebration coincides with National Higher Education Week, Oct. 25-31, and complements its themes, "Education is Freedom" and "Use Your Liberty to Learn."

Sponsored by the Council for Advancement and Support of Education, the special week is an annual tribute to higher education and its service to the nation.

COLLEGE OF AGRICULTURE GETS NEW DEPARTMENT HEADS

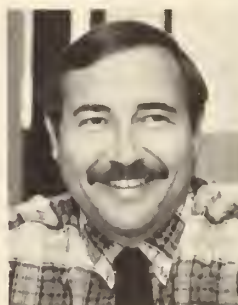
The College of Agriculture has two new department heads.

Lamar Robinette and Dixon Lee have been named heads of the aquaculture, fisheries and wildlife department and the dairy science department, respectively.

Robinette, an Extension wildlife specialist at Clemson for 11 years, has been the acting department head for the past two years.

A native of Linden, Ala., he earned bachelor's, master's and doctoral degrees at Auburn

(Continued on page 3)



The Clemson University Newsletter is published for Gary Pringle, superintendent of buildings with the Physical Plant, and for all members of the faculty and staff by the Division of University Relations.

University Newsletter Editor .. Deborah M. Slice
Acting Director, News Services .. Catherine Sams

We welcome your comments and suggestions. Call us at 656-4989 or write us at 103 Fike Center. DEADLINE is Oct. 15, noon, for Oct. 22 issue.

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Southeastern Branch of the Entomological Society of America.

Hamilton is the third Clemson entomology student to receive the award in the past four years, and the fourth in eight years, said Hays.

"An award like this at a national meeting is worth more than anything we can do to advertise our program," he said.

"You don't have to win awards to have a good program, but it's a good measure that we're doing something right -- hopefully a whole lot right."

SOCIOLOGIST USES COUNTRY MUSIC TO STUDY CHANGING SEX ROLES OF WORKING CLASS

If you want to learn about lovin', cheatin', leavin' home, drinkin', ramblin' and old-time religion, then tune in to one of the dozens of local country music radio stations.

That's what Assistant Professor Brenda Vander Mey does as a part of her research on Southern sex roles and male-female relationships as portrayed in today's country music.

When a part of Vander Mey's research findings hit the Associated Press wires this spring, radio stations and newspapers across the country and even in Canada reacted.

Vander Mey apparently had hit a nerve in country music followers in all parts of the nation. Radio stations in Atlanta, Denver and Toronto called the family sociologist to interview her on the air; newspapers from the Chicago Tribune to the Dayton Daily News in Ohio reported on her research. The magazine Psychology Today summarized her findings in its April issue.

What was all the commotion about?

Vander Mey and Ellen Bryant, a sociologist from Mississippi State University, analyzed 131 country songs to evaluate themes from two periods: 1970-72 and 1979-81. They were looking specifically for an indication in the lyrics of changing sex roles or at least an "awareness" of the changing roles.

"We assumed that country music songs

(Continued from page 2.)

University. He is a member and past president of the S.C. Wildlife Federation and the S.C. Aquatic Plant Management Society.

Lee was formerly a professor of animal science at Southern Illinois University. He earned bachelor's and master's degrees at Clemson and a doctorate at North Carolina State.

An animal nutrition specialist, Lee is a member of the American Dairy Science Association and the American Society of Animal Science.

"Both men are uniquely qualified with backgrounds in teaching, research and Extension," said Benton Box, acting vice president and vice provost for agriculture and natural resources. "I'm confident they'll do outstanding jobs as our new department heads."



Vander Mey

reflect the attitudes and values of working-class, white Southerners," said Vander Mey, who came to Clemson from Mississippi State in 1984.

She found in her research that South-

(Continued on page 4.)

(Continued from page 3.)

ern working-class, white women traditionally have been expected to be nurturing, submissive and permissive to Southern men, who traditionally have been expected to be sexually dominant and promiscuous, self-reliant, aggressive, successful, anti-feminine and insensitive.

Using these traditional sex roles as a basis for her research, she discovered several themes in country music: songs by female singers reflect traditional sex roles ("Stand by Your Man"); excuse male infidelity ("Just One More of Your Good-byes"); show an awareness of, if not support of, women's liberation ("I Can't Stay Married to You"); and reflect competitiveness with other women (You Ain't Woman Enough to Take My Man").

On the other hand, the men in country music sing songs supporting women who display traditional sex role behavior ("Good Hearted Woman"); and songs that support the traditional male role ("I'm a Ramblin' Man").

"Since segregation of the sex roles are breaking down, the blue-collar-class men are a bit confused today as to exactly how they're supposed to behave,"

Vander Mey said. "Many women have to work today, and this contradicts the blue-collar ethic that strong men take care of their wives and families."

Few singers, she said, are totally traditional or totally reactionary in their songs, but rather they "present mixed messages about sex roles."

"While many songs by men do give positive support for traditional sex roles, some of them show men as loving, considerate or repentant for transgressions. Others even show an awareness of non-traditional roles for women."

Women, meanwhile, are placing more conditions on their relationships, Vander Mey said. "Lyrics suggest women want to be treated as individuals, they want to be strong in a relationship, they're asking for a change in their domestic roles, they want to stand up for themselves."

When Psychology Today reported Vander Mey's research, the writer suggested that singer Tammy Wynette's song "Stand by Your Man" be renamed "Stand Up to Your Man."

"I don't think that's what women are saying today," Vander Mey said. "I think what they're saying is 'Stand Up With Your Man.'"

DEPARTMENTAL NOTES

AGRICULTURAL ECONOMICS AND RURAL SOCIOLOGY

These faculty members presented papers at the annual meeting of the American Agricultural Economics Association in Reno, Nev., July 27-30:

-- C.E. Curtis (Asst Prof), "An Analysis of Soybean Options Marketing Strategies."

-- G.C. Davis (Grad Res Asst), M.D. Hamig (Assoc Prof) and C.P. Rosson (Assoc Prof), "Impact of a European Economic Community Vegetable Oils Tax on U.S. Soybean Exports."

-- S.E. Miller (Prof), "Forward Contracting Versus Hedging

Under Price and Yield Uncertainty."

C.E. Curtis presented an invited address, "Innovative Soybean Marketing Strategies," at the American Soybean Association Expo annual meeting in Cincinnati July 26.

J.C. Hite (Alumni Prof) has been appointed to the editorial board of Growth and Change, a journal of urban and regional policy published by the University of Kentucky.

AGRICULTURAL ENGINEERING

A. Khalilian (Asst Prof) presented "Energy for Conservation Tillage in Coastal Plain Soils," written with T.H. Garner

(Prof), H. Musen (Prof, agronomy), R.B. Dodd (Asst Prof) and S.A. Hale (Vstg Instr), at the July 1 meeting of ASAE in San Luis Obispo, Calif.

ARCHITECTURE

G.C. Means Jr. (Prof) and N. Kellman, M.D. (Berkeley, Calif.) moderated a seminar on the history and future of health facilities design at the Oakland Civic Center in Oakland, Calif., Aug. 11-13.

BUSINESS SERVICES

L.J. Sanders (Risk Manager) conducted a workshop at the S.C.

(Continued on page 5.)

(Continued from page 4.)

State Insurance Women's
Meeting in Greenville
Sept. 19-20.

CHEMICAL ENGINEERING

D.D. Edie (Prof),
K. Fox (Former Grad
Stu), B.C. Barnett
(Former Grad Stu) and
C.C. Fain (Prof, Cer-
amic Engineering) pub-
lished "Melt-spun Non-
circular Carbon Fibers"
Carbon, 24, No. 4
(1986) 477-482.

J.M. Haile (Prof)
presented an invited
seminar to faculty and
graduate students of
Louisiana State Univer-
sity's chemical engineer-
ing department Sept. 5.

CIVIL ENGINEERING

S.C. Anand (Prof)
presented "Stresses in
Composite Masonry Shear
Walls Due to Earthquake
Loads" at the Third U.S.
National Conference on
Earthquake Engineering
in Charleston Aug. 25-
26.

M.A. Rahman (Grad
Stu) received the first-
place award in a seven-
state regional contest
for his paper, "Earth-
quake Effects on Compos-
ite Masonry Walls."

K. Yalamanchili
(Grad Stu) received the
first-place award in the
state competition for
his paper, "Earthquake
Effects on the Cracking
of Composite Masonry
Walls."

COMPUTER SCIENCE

E.O. Hare (Lect)
presented "A Linear Al-
gorithm for Computing
the Knight's Covering
Number of a KxN Chess-
board," written with

S.T. Hedetniemi (Prof),
at the Eugene Strens
Memorial Conference on
Intuitive and Recrea-
tional Mathematics in
Calgary, Alberta, July
27-Aug. 2.

D.E. Stevenson (Asst
Prof) and J. Stamey
(Grad Stu) presented
"Time Varying Cellular
Automata" at CA86 June
18 in Cambridge, Mass.

DAIRY SCIENCE

J.C. Hoskin (Asst
Prof) presented "Ultra-
filtration of Blue
Cheese Whey Using a
Formed-in-Place Membrane
on a Sintered Stainless-
Steel Support" at the
American Dairy Associ-
ation's annual meeting
at the University of
California, Davis, June
23-26.

D.T. Vines (Assoc
Prof), B.F. Jenny
(Prof), R.E. Wright
(Prof) and L.W. Grimes
(Prof) published "Vari-
ation in Milk Fat, Pro-
tein and Somatic Cell
Count From Four Dairy
Herd Improvement Labor-
atories" in Journal
of Dairy Science, 69
(August 1986) 2219.

EARTH SCIENCES

G.M. Haselton
(Prof) was an invited
participant to the
N.A.T.O. Advanced Study
Institute in Les Arcs,
France, July 13-23. He
discussed how ground
water affects the down-
slope transportation of
boulder debris in por-
tions of Watauga
County, N.C.

C.G. Maples (Vstg
Asst Prof) presented:
-- invited lectures
on Pennsylvanian marine-
invertebrate community

changes to the depart-
ment of geology at
George Washington Univer-
sity May 22 and to the
Kansas Geological Survey
Aug. 21.

-- a talk, "Evolu-
tionary Replacement and
Reorganization in Echino-
derm Communities: An
Example From the Missis-
sippian (Meramecian/
Chesterian) of Alabama,"
at the Fourth North
American Paleontological
Convention in Boulder,
Colo., Aug. 15.

-- a poster, "Monte
Carlo Simulations of Bi-
nomial Clustering Coeffi-
cients: Effects of Num-
bers of Variables and
'Zero' Data," at the
same convention.

ELEMENTARY & SECONDARY EDUCATION

W. Pennscott (Prof)
presented:

-- a workshop, "Ac-
tive Listening Skills in
Crisis Situations," to
the faculty and staff of
the South Carolina
School for the Deaf and
Blind in Spartanburg in
August.

-- a talk, "Career
Guidance in the Pre-
Vocational Program," to
pre-vocational teachers
at the South Carolina
Vocational Education
Conference in Columbia
in July.

ENGINEERING GRAPHICS

V.B. Anand (Assoc
Prof) presented "Utili-
zation of Computer Educa-
tion in Engineering Educa-
tion" at the 1986 ASEE
Annual Conference in
Cincinnati June 23-26.

Anand received a
grant from ACM/SIGGRAPH

(Continued on page 6.)

(Continued from page 5.)

for educational materials to supplement courses in computer graphics. The grant also provided travel support to attend the 1986 conference in Dallas Aug. 16.

ENGLISH

E.P. Willey (Assoc Prof) published "Continuities" in Interim (spring 1986) and "Musings" in Cotton Boll/Atlanta Review (spring 1986).

H.B. Bryant (Prof) published:

-- "Symbolic Names in Knowles's A Separate Peace in Names: Journal of the American Name Society, 34 (1986) 83-88.

-- essays on The British Museum Quarterly, Penguin Parade, and The Owl in British Literary Magazines: The Modern Age 1914-1984, ed. Alvin Sullivan (1986) 71-75, 333-336, 334-350.

HISTORY

A. Schaffer (Prof) reviewed American Rodeo: From Buffalo Bill to Big Business by Kristine Fredrikson in Journal of Southern History, 52 (May 1986) 333-335.

T. Perdue (Prof) presented "Indians and Race in Southern History" at the Australia-New Zealand American Studies Association meeting in Auckland, New Zealand, May 11-14.

INDUSTRIAL EDUCATION

C. Isbell (Assoc Prof) appeared Sept. 12 on Columbia's WIS-TV

"Carolina Today" show to discuss integrating career awareness into the elementary school curriculum.

LANGUAGES

M. Cranston (Prof, French) was elected to the nominating committee of the Philological Association of the Carolinas at its meeting in Greensboro, N.C., Sept. 6.

MANAGEMENT

A.F. Czajkowski (Assoc Prof) will remain a William C. Foster Visiting Fellow with the U.S. Arms Control and Disarmament Agency (ACDA) for a second year. He is serving in ACDA's Strategic Affairs Division and has been selected to represent ACDA beginning Sept. 18 as a member of the U.S. START Negotiations Delegation that will meet with the Soviets in Geneva, Switzerland, when the current round of U.S./Soviet arms control talks resume.

W.H. Hendrix (Prof), T.L. Leap (Prof) and R.P. Steel (Assoc Prof, Air Force Institute of Technology) presented "A Health Promotion Model for Organizations: The Effect of Health Promotion on Organizational Effectiveness and Absenteeism" at the Second International Symposium on Human Factors in Organizational Design and Management in Vancouver, Canada, in August.

M.J. Stahl (Prof & Head) was appointed to the Editorial Review Board of the Journal of Management for a three-

year term (1987-1989).

Stahl and Hendrix presented "Effects of Need for Power on Job Stress for Managers" at the 1986 National American Psychological Association Convention in Washington, D.C., in August.

Hendrix, Steel and A.J. Mento (Assoc Prof, Loyolla College-Baltimore) presented "Joint Influence of Perceived Task Dimensions, Felt Competence, and Job Involvement on Work Performance of Armed Forces Personnel" at the 1986 National Academy of Management Meeting in Chicago in August.

T.L. Leap and M.D. Crino (Prof) published "How to Deal With Bizarre Employee Behavior" in Harvard Business Review.

Crino has been appointed to a three-year term on the Journal of Management editorial review board.

Crino, S. Hartman (Univ of New Orleans) and M.C. White (Univ of Tulsa) have had "Environmental Volatility, System Adaptation, Planning Requirements and Information Processing Strategies: An Integrative Model" accepted for publication in Decision Sciences.

Crino, White and S. Looney (Louisiana State Univ) published "The Eye of the Beholder" in Academy of Management Journal.

Crino, White and J. Hatfield (Univ of Georgia) published "An Empirical Test of the

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Parsimony of Perceptual Congruence Scores" in Academy of Management Journal.

Crino, Hartman, D.J. Harris (Louisiana State Univ) and R. Griffeth (LSU) presented "The Effects of Rater and Candidate Sex, Candidate Personal Characteristics, and Job Type on the Rating Process" at the 1986 National Academy of Management Meeting in Chicago.

D. Grigsby (Assoc Prof), Crino, Hartman, and J. Chhokar (Indian Institute) published "An Action Tendency Measure of Job Satisfaction" in Educational and Psychological Measurement.

R. Ballard (Grad Asst), Crino and S. Rubinfeld (Univ of Minnesota) will present "Social Desirability: A Construct in Search of a Measure?" at the 1986 Southern Management Association Meeting in Atlanta.

J. Butler (Assoc Prof) and Crino presented "An Experimental Test of Bargaining Decisions and Representation" at the 1986 Meeting of the Association of Business Simulation and Experiential Learning in Reno, Nev.

MATHEMATICAL SCIENCES

W.H. Ruckle (Prof) attended the Eighth European Conference on Operations Research in Lisbon, Portugal, Sept. 4-20. He gave an invited talk Sept. 17 on "A Discrete Search Game." An interview he gave on game theory dur-

ing the conference will be broadcast on Swedish radio.

MECHANICAL ENGINEERING

D.E. Beasley (Asst Prof) and R.S. Figliola (Assoc Prof) presented "Analysis of a Local Heat Flux Probe" at the Eighth International Heat Transfer Conference in San Francisco Aug. 22.

J.G. Goree (Prof) visited NASA-Langley Research Laboratory on Aug. 12 to discuss funded NASA research in composite materials.

Goree chaired a technical session and presented "Analysis of Composite Laminate Laminates with Interleaves," written with A.K. Kaw (Grad Asst), at the Society of Engineering Science 23rd Annual Meeting at State University of New York Aug. 25-27.

R. Kumar (Asst Prof) and R.J. Adrian (Univ of Illinois) published "Higher Order Moments in the Entrainment Zone of Turbulent Penetrative Thermal Convection" in the Journal of Heat Transfer, 108 (May 1986) 323-329.

Kumar presented "Application of a k-E Closure to a Heated Turbulent Offset Jet," written with G. Raghunath (Grad Asst) and J.A. Liburdy (Prof), at the Eighth International Heat Transfer Conference in San Francisco Aug. 17-22.

Liburdy presented "Prediction of Natural Convective Heat Transfer from a Heated Horizontal Disk," written with B.J. Tsai (Former Grad Asst), at the Eighth International Heat Transfer Conference to be

published in the conference proceedings.

NURSING

M.J. Dick (Asst Prof) published "Burnout in Nursing Faculty: Relationships with Management Style, Collegial Support and Workload in Collegiate Programs" in Journal of Professional Nursing, July-August 1986.

E.M. Baines (Assoc Prof) published "Influence of Eating on Blood Pressure Readings in Older Adults" in Journal of Community Health Nursing 3(4), (1986) 225-230.

Baines and Dick have been selected to serve on the editorial board of the Journal of Applied Nursing Research as reviewers of manuscripts.

PHYSICS & ASTRONOMY

P.B. Burt (Prof) lectured on nonlinear physics at Francis Marion College in Florence Sept. 11. He also discussed the graduate program in physics for prospective students.

J.P. McKelvey (Prof) was employed during the summer as a consultant to the Directorate of Engineering and the Division of Policy Research and Analysis of the National Science Foundation in Washington, D.C. He wrote a science policy survey, "Revolutionary Technologies, Past, Present and Future (?)," and will participate in future NSF policy analysis activities in this area.

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PLANT PATHOLOGY & PHYSIOLOGY

The following papers were presented at the Annual Meeting of the Society of Nematologists in Orlando, Fla., in August:

-- "Development of Meloidogyne incognita on Tomato Plants That Received Red or Far-red Light at the End of the Photosynthetic Period," written with M.J. Kasperbauer (Adj Prof) and P.G. Hunt (Adj Prof, Agronomy and Soils), by B.A. Fortnum (Assoc Prof).

-- "Varietal Reaction of Grain Sorghum to Meloidogyne spp.," written with J.P. Krausz (Former Assoc Prof) and R.E. Currin III (Prof, Agronomy and Soils), by Fortnum.

-- "Evaluation of Soybean Cultivars for Tolerance to Hoplostaimus columbus," written with E.R. Shipe (Assoc Prof, Agronomy and Soils) and H.L. Musen (Prof, Edisto Research and Education Center), by J.D. Mueller (Asst Prof).

-- "Host Compatibility in Plants," a symposium paper, by S.A. Lewis (Prof).

-- "Reproduction and Virulence of Four Meloidogyne arenaria Isolates on Six Soybean Selections," written with Lewis, by A.S. Carpenter (Grad Asst).

-- "Weed Hosts of Meloidogyne incognita and M. arenaria," written with Fortnum, by E.C. Tedford (Former Grad Asst).

-- "Effects of Flue-cured Tobacco Varieties on Meloidogyne spp. Population Shifts in South Carolina," written with Fortnum and W.C. Bridges Jr. (Asst Prof, Experimental Statistics), by Tedford.

-- "Control of Hoplostaimus columbus Using Granular Nematicides and Tolerant Cultivars," written with M. Sullivan (Prof, Entomology) and S. Turnipseed (Prof, Entomology), by J.D. Mueller.

S.A. Lewis presided over the Historical Review of the Society Symposium at the Annual Meeting of the Society of Nematologists in Orlando, Fla., in August.

J. Halbrendt (Vstg Asst Prof) presented "A Novel Method for Resistance Screening to Cyst Nematodes in Soybean" at the Cyst Nematode Workshop in Orlando, Fla., in August.

POULTRY SCIENCE

The following persons attended the annual meeting of the Poultry Science Association at N.C. State University in Raleigh, N.C., Aug. 4-8:

-- D.J. Castaldo (Grad Res Asst) received a certificate of excellence for "Subsequent Egg Shell Strength Following an Induced Molt and the Relationship of Shell Strength to Shell Gland Phospholipids," written with D.V. Maurice (Assoc Prof).

-- C. Hsun (Grad Res Asst) presented "True Amino Acid Availability (TAAA) of Naked Oats (Avena nuda L.) and Performance of Broiler Chicks," written with J.E. Jones (Prof) and Maurice.

-- G.P. Birrenkott (Assoc Prof) presented "In vitro Filling of the Utero-vaginal Sperm Host Glands -- Timed Entrance with Avian and Bull Sperm," written with S.R. Nash (Pasteur Institute in Paris), M.E. Wiggins (Res Spec) and J.F. Dickey (Prof, Dairy Science).

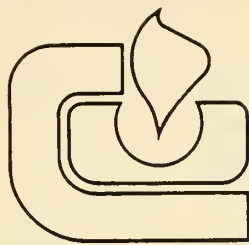
-- Birrenkott presented "Microcomputers in the Poultry Classroom. 2. Poultry Products Evaluation-Candled Egg Class," written with M.A. Hall (Asst Prof).

-- Hall presented "The Microbiological Aspects of a Squab Processing Plant."

-- J.A. Souther (Grad Res Asst) presented "Yield and Composition of Squab (Columba spp.)," written with Hall.

TIGERAMA '86

Tigerama '86 will be held Oct. 17, 7:30 p.m., in Memorial Stadium. Tickets (\$1.50) are on sale at these locations: Clemson: Lynch Drug Company, Ramada Inn, Holiday Inn, Mr. Knickerbockers. Seneca: Harris Sporting Goods. Anderson: C&S Bank. Greenville: Mr. Knickerbockers in Haywood Mall. Tickets also are available from any Blue Key member and in front of Schilletter and Harcombe dining halls.



Events

INFORMATION FOR THE FACULTY AND STAFF OF CLEMSON UNIVERSITY

This calendar is prepared up to a month in advance. Please send in writing to the MASTER CALENDAR EDITOR, 103 Fike Center, any campus event that should be listed. You may also want to call 656-4993 to check the UNIVERSITY MASTER CALENDAR for possible scheduling conflicts. (Call the number listed in each entry for more information.)

October 10-17

CONFERENCES, LECTURES AND SHORT COURSES

- 11 Short Course: Rock Climbing and Rapelling -
Session 1. Sponsored by University Union
(656-2461), \$35.
- 13-15 Short Course: Shagging (intermediate). Spon-
sored by University Union (656-2461),
7:15-8:30 p.m., \$10.
- 13-29 Short course: Scuba Diving. Sponsored by
University Union (656-2461), 7-9 p.m. Mondays
and Wednesdays, \$175.
- 14-15 Conference: Carpet Yarn Twistsetting. Spon-
sored by Professional Development (656-2200),
Clemson Ramada Inn.
- 14-21 Conference: Nurse Anesthetist Study-Tour to
Hawaii. Sponsored by Nursing Continuing
Education (656-3078), \$250/275.
- 15 Lecture: "Southern Humor" by Bill Koon, professor
of English. Sponsored by the Black Awareness
Committee (656-3263), 7 p.m., 200 Hardin Hall.
- 16 World Food Day Teleconference. Sponsored by
Cooperative Extension (656-3475), noon, Purple
Room, Clemson House.
- 16-23 Short course: Relaxation Techniques. Sponsored
by University Union (656-2461), 7-9:30 p.m.
Thursdays, \$15.

FILMS AND MUSIC

- 12 Movie: "Prizzi's Honor." Sponsored by Univer-
sity Union (656-2461), 7 & 9:30 p.m., Y-Theatre,
free with University I.D.
- 13 Movie: "The Man With One Red Shoe." Sponsored
by University Union (656-2461), 8 p.m.,
Y-Theatre, \$1.
- 13 Film: "Alsino y el Condor." Sponsored by
languages department (656-3396), 7:30 p.m., 106
Daniel Hall, free.
- 14 Concert Series: Masterplayers of Lugano.
Sponsored by music department (656-3854),
8 p.m., Tillman Hall Auditorium, students free,
\$6 adults, \$2 children.

THE HISTORY OF

THE UNITED STATES OF AMERICA

FROM THE FIRST SETTLEMENTS TO THE PRESENT TIME

BY JAMES OSGOOD

NEW YORK: PUBLISHED BY J. OSGOOD, 15 NASSAU ST.

1856

THE HISTORY OF THE UNITED STATES OF AMERICA

- 15 Film: "The Sea: Life Lines for Today and Tomorrow." Sponsored by College of Architecture and Japanese Consulate General (656-3081), 3:30-4 p.m., 100 Lee Hall, free.
- 16 Movie: "Breakfast Club." Sponsored by University Union (656-2461), 8 p.m., Y-Theatre, \$1.50.
- 16 Musicians: Poor Souls. Sponsored by University Union (656-2461), 9 p.m.-12 a.m., Union, free.

OTHER EVENTS

- 10- Nov 21 Weight Control Program. Sponsored by College of Nursing (656-3076), 12-1 p.m. Fridays, Nursing Center.
- 11 Trip: Road trip to Virginia football game. Sponsored by University Union (656-2461), \$25 includes ticket and transportation.
- 11 Horse Show. Sponsored by Block and Bridle Club (656-4363), 9 a.m., University Rodeo Arena.
- 13 Preliminary grades due.
- 14 Panel: "Classified Research at Clemson." Sponsored by American Association of University Professors (656-3816), 4 p.m., 108 Strode, free.
- 14 Placement Orientation for all majors. Sponsored by Cooperative Education and Placement (656-2152), 11 a.m., Senate Chambers.
- 15 Soccer: Southern Connecticut, 8 p.m., Riggs Field (656-2101).
- 15-16 Seminar: "Pre-retirement Education" for Clemson employees within 15 years of retirement eligibility. Sponsored by the personnel division (656-3367), time TBA, F149 P&A Building, spouses welcome, must register.
- 15-30 Exhibit: Statue of Liberty - Ellis Island. Sponsored by Statue of Liberty Commemoration Committee (656-3883), 8 a.m. - 4:30 p.m. weekdays, 2-5 p.m. Sunday, Lee Hall Gallery, free.
- 16 Meeting: Fulbright Selection Committee (656-4762).
- 16 Meeting: Institute of Industrial Engineers, 7 p.m., 300 Riggs Hall, open to the public (656-2703).
- 16 Speaker: Gerard Tertzakian, president of Terochem Laboratories Ltd. in Canada. Sponsored by the Distinguished Chemical Industry Business Seminar series (656-3066), 11 a.m. in Earle Hall auditorium and 4:30 p.m. in 131 Brackett Hall, free.
- 17 Tigerama '86: Fairy Tale Clemson, featuring a special Statue of Liberty fireworks display. Sponsored by Blue Key & WSBF (656-8465), 7:30 p.m., Death Valley, \$1.50.
- Continuous YMCA-sponsored classes in women's and men's fitness, youth fitness, aerobics, exercise, Jazzercise, social dancing, Middle Eastern dance, swimming, gymnastics, lifesaving, and after-school day-care programs (656-2460).

Newsletter

OCT 15 1986

Oct. 15, 1986
Vol 26 No 9

INFORMATION FOR THE FACULTY AND STAFF OF CLEMSON UNIVERSITY

CLASSIFIED STAFF COMMISSION TAKES POSITION ON PAY PLAN

The Commission on Classified Staff Affairs endorsed a position paper on the state employee pay plan and presented a copy Sept. 26 to the President's Council for its consideration.

"We're trying the best we can to influence the administration that a merit program needs to be funded," said Pat Padgett, commission chair.

"There needs to be some means, besides cost-of-living pay increases, that career employees can be rewarded for their achievements," she said. The paper is printed below.

The Commission on Classified Staff Affairs, in reaction to the proposed pay plan presented to the state Legislature by Governor Dick Riley, prepared for the President's Council in February 1986 a recommended pay plan which described the ideal pay package for Clemson University classified staff. Additionally, it was anticipated that should the governor's plan be adopted, state agencies would have the flexibility to vary the plan and Clemson University conceivably could have incorporated the pay plan briefly outlined below:

- Potential of merit reward for every deserving employee, based on performance, regardless of the individual's pay bracket.
- Bonus rewards as outlined in Governor Riley's proposed pay plan.
- Cost of living adjustments, when appropriate.

Governor Riley's pay package was not funded in the Appropriations Act passed by the Legislature. Therefore, the potential for Clemson University to implement a variation of that plan was lost. As a result, state employees face another year with an unfunded merit program, a discontinued longevity pay program and a cost-of-living increase of three percent.

The Commission on Classified Staff Affairs

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CLEMSON MAYOR LARRY ABERNATHY signs a proclamation designating Oct. 25-31 as Higher Education Week in Clemson as President Max Mannon looks on. Abernathy signed the document during the Joint City/University Advisory Committee meeting Oct. 6.

NURSING CENTER HOLDS OPEN HOUSE OCT. 21

Visitors to the Nursing Center Oct. 21 will get tours of the center's facilities and free blood pressure checks.

The center's annual Open House will be held 3-6 p.m. in the College of Nursing building. Refreshments will be served.

For more information, call Kay Powers at 656-3076.

CHANGE IN PROCEDURE MAY AFFECT HOW MUCH TAX YOU OWE IN APRIL

A change in the way University employees' retirement contributions are handled by the S.C. Tax Commission may affect how much money is due in the tax office in April.

Taxes on S.C. retirement contributions no longer will be withheld each month, so total state taxes withheld this year will be less than the amount withheld last year, said Ron Herrin, director of payroll and employee benefits.

An employee who has the same taxable gross income this year as last year, and who paid additional income tax at the end of last year, probably will have to pay even more at the end of this year.

If the employee received a tax refund last year, he or she probably will not receive as much of a refund this year.

"Employees can reduce their tax exemptions so more tax will be withheld with each paycheck and less will be owed at the end of the year," Herrin said.

This change in withholding procedure is a result of a tax law passed by the state Legislature in 1985.

For more information, contact Herrin or Carl Henson in the payroll/insurance office, 656-2000.

UNIVERSITY SECRETARIES SPONSOR LUNCHEON TO HONOR CAMPUS BOSSES

The Clemson chapter of Professional Secretaries International will sponsor a special luncheon in observance of National Bosses' Day Oct. 22.

The luncheon will be held from noon to 1 p.m. in the Clemson House ballroom.

Reservations should be made by Oct. 16. The cost is \$6.50 each.

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goes on record to express concern to the President's Council that state legislators should consider the welfare of state human resources as to priority and, to the extent possible, react more sensitively to the needs of classified employees

In other Staff Commission business:

- Pat Padgett has been appointed University staff representative to the Joint City/University Advisory Committee.

- A classified employee recognition program was endorsed by the President's Cabinet Sept. 29 and will be implemented in January. Initiated by the Staff Commission, the program will provide an opportunity for employees to be recognized for their contributions and achievements at an annual banquet.

- The commission has written letters to the provost requesting that classified staff members be included on search committees for University administrators, deans and department heads.

FIFTEEN BUSINESS AND COMMUNITY LEADERS JOIN UNIVERSITY BOARD OF VISITORS

Fifteen business, professional and civic leaders from across the state have been appointed to two-year terms on the University's Board of Visitors.

The newcomers, who were nominated by the Board of Trustees and appointed by President Max Lennon, join 16 continuing members whose terms expire next year.

The relationship between the University and the leaders of the communities it serves is

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The Clemson University Newsletter is published for Linda White, the new volleyball coach, and for all members of the faculty and staff by the Division of University Relations.

University Newsletter Editor .. Deborah M. Slice
Acting Director, News Services .. Catherine Sams

We welcome your comments and suggestions. Call us at 656-4989 or write us at 103 Fike Center. DEADLINE is Oct. 22, noon, for Oct. 29 issue.

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Proceeds will go toward the chapter's Future Secretary Scholarship Fund.

Tom Zimmerer, professor of management, will speak on the Positive Approach to Motivating our Secretary" and WFBC radio personality Russ Cassell will be the master of ceremonies.

For more information, call Linda Brady (656-2249) or Martha Ace (656-5893).

----- CANADIAN TO BEGIN SERIES OF CHEMICAL BUSINESS SEMINARS -----

The president of a Canadian chemical company will be the first speaker in the 1986 Distinguished Chemical Industry Business Seminar series.

Gerard Tertzakian, president of Terochem Laboratories Ltd. in Edmonton, Alberta, Canada, will speak Oct. 16 at 11 a.m. in Earle Hall auditorium and at 4:30 p.m. in 131 Brackett Hall.

Admission is free.

His topic will be small chemical companies and their role in producing complex chemical reactions commercially.

The lecture series is designed to introduce students to the variety of job opportunities in chemical-related industries.

DISCOVER WHERE YOUR CASH GOES AT WOMEN'S SEMINAR OCT. 21 -----

If you've ever wondered where your money goes, John R. Warner III probably can tell you.

Warner, a certified public accountant and manager of the Greenville office of Peat, Marwick, Mitchell & Co., will give the 1986 Women's Seminar Oct. 21, "Where Does All Your Cash Go?: Cash Management and Related Information Systems."

The 7 p.m. program, presented

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"essential in maintaining Clemson as a vital force in the state's educational and economic well-being," Lennon said.

"Clemson University is pleased and excited that these business and community leaders have accepted our invitation to serve on the board," he said.

The new members represent eight South Carolina cities:

Aiken: John T. Granaghan, plant manager of Du Pont Co.'s Savannah River Plant; Albert H. Peters Jr., manager of plant facilities and services at the Savannah River Plant.

Bishopville: Don R. McDaniel, farmer.

Columbia: Scott Sanders, executive director of the S.C. Arts Commission; James H. Young Jr., a senior vice president of S.C. Electric and Gas Co.; Eugene H. Laurent, deputy executive director of the S.C. Budget and Control Board.

Fort Mill: Elliot S. Close, president and co-owner of the Island Harbor Development Corp.

Gaffney: Robert L. Peeler, vice president of Peeler Jersey Farms Inc. and Peelco Inc.

Greenville: William D. Workman, city mayor and senior business development manager for Daniel International Corp.; John G. Chapman, senior vice president of the First Union National Bank of South Carolina; Frank Landgraff, president of King Chris Co. Inc.

Hartsville: James C. Fort, a senior vice president at Sonoco Products Co.

Orangeburg: Dr. John W. Rheney Jr., pediatrician; Clyde W. Mulkey, purchasing agent for Ethyl Corp.

Rock Hill: James C. Rhea Jr., real estate agent.

MANAGEMENT DEPARTMENT PUBLICATIONS MAKE TOP 20 PERCENT IN SURVEY -----

The management department in the College of Commerce and Industry has dramatically improved its research productivity, moving it into the top 20 percent of all accredited business schools in the country.

"In 1980 we were in the top half nationally -- 116th on the list of faculty publications in leading management journals," said Michael Stahl, management head. "By 1985, we had moved up to 36th on the list."

Stahl, management professor Terry Leap and doctoral candidate Zhu Zhi Wei have compiled data on the number of articles published by 230 business schools nationwide in the top 23 management journals over the past six years.

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by the University's Small Business Development Center and the Clemson Chamber of Commerce, will be held in Sirrine Hall, Room 365.

Registration is \$5 for faculty and staff and \$10 for the public.

A graduate of Clemson and the University of Georgia, Warner is extensively involved in computerized modeling and analysis.

His wide range of experience includes personal financial planning, financial analysis and business planning.

BLUE DEVILS AND GEORGE BURNS HIGHLIGHT HOMECOMING WEEKEND

Fairytales, fireworks and comedian George Burns will highlight Clemson's Homecoming celebration this weekend, Oct. 17-19.

The 29th annual Tigerama, the official start of Homecoming, will be held 7:30 p.m. Friday in Memorial Stadium.

Billed as "Fairytale Clemson," Tigerama will feature campus organizations' skits based on favorite children's fairytales. Music, a pep rally, fireworks and the crowning of the Homecoming queen will round out the evening's activities.

Tickets will be sold for \$1.50 at the stadium before the show and are available in front of Schilletter and Harcombe dining halls and at Mr. Knickerbockers.

The Tigers will face the Duke Blue Devils Saturday at 1 p.m.

The halftime program will include a salute to the Statue of Liberty, featuring the Tiger Band playing music from John Williams, Irvin Berlin and Aaron Copland.

Entertainer George Burns will close Homecoming festivities with a performance in Littlejohn Coliseum Saturday at 8 p.m. Tickets are \$14.25, \$12.25 and \$9.25 and are available at the University Union box office.

HOSPITALITY AND TOURISM INVITATIONAL OPENS OCT. 23 AT OUTDOOR LABORATORY

The parks, recreation and tourism management department will host its third annual Hospitality and Tourism Invitational Oct. 23-25 at the Outdoor Laboratory.

This year's theme is "Rekindling the Torch: Marketing, Selling and Servicing the International Visitor."

The conference begins exactly five days before the 100th anniversary of the Statue of Liberty's unveiling.

"It seemed appropriate to honor the Lady who has seen so many visitors and immigrants pass by her in the harbor," said Dick Howell, invitational coordinator and new director of Clemson's Recreation, Travel and Tourism Institute.

"Today, most visitors fly overhead, but the statue still greets millions of people each year as one of the premier tourist attractions in this country," he said.

Tourism experts from the United States, Canada and Europe will speak during the conference and help explore ways the United States can increase its share of the tourism business.

Specific topics to be covered include international finance, communications and marketing, and special programs required to attract and serve an international clientele.

While the program's emphasis is on the travel market, Howell said anyone interested in international business will benefit by attending.

Hospitality and tourism agencies participating in the program include the American Society of Travel Agents, AT&T Communications, Citicorp Services, Destination Marketing Ltd., Eastern Airlines, the Florida Division of Tourism and Harris/Ragan Management Corp.

Also participating are Hyatt Hotels, the National Tour Association, Parks Canada, Risbecker International, the S.C. Department of Parks, Recreation and Tourism and the U.S. Travel and Tourism Administration.

That these people are coming from Chicago, Los Angeles, London, Stockholm and elsewhere at their own expense is a testament, said Howell, "to their respect for Clemson programs in the fields of travel and tourism education and research."

Advance registration is \$90, or \$40 for students. Registration at the Outdoor Lab Oct. 23 will cost an additional \$10.

The fee includes all meals from Thursday evening through Saturday afternoon.

For more information, call the department of parks, recreation and tourism management, 656-3400.

WILDER AWARD WINNER TO SPEAK AT CHILDREN'S LITERATURE SYMPOSIUM

Jean Fritz, the author of more than 20 books that bring history to life for children, will highlight the Children's Literature Symposium here Oct. 25.

Fritz will speak on "An American Immigrant to America" at noon in Daniel Hall Auditorium.

This year Fritz was named winner of the Laura Ingalls Wilder Award, presented every three years by the American Library Association to an author whose books have made a substantial contribution to literature for children.

"With honesty, humor, accuracy and style, she has vitalized history, especially for younger readers," said Ethel Heins, chair of the award committee.

"She also projects a passionate sense of true patriotism."

As the Fritz only child of missionary

parents, Fritz spent her first 12 years of life in China, then sailed with her family for America in 1928 to settle in Connecticut.

Her first historical novel for children, "The Cabin Faced West," was published in 1958 -- the result of her research into a story handed down through her own family about how her great-great-grandmother had supper with George Washington.

Since then, her informal historical biographies have been widely acclaimed as "unconventional"... "good-humored"... "witty"... "readable"... and "extraordinary."

In 1982, Fritz published her own biography, "Homesick: My Own Story," winner of the 1983 American Book Award for Children's Fiction.

In 1985, she was awarded the Regina Medal by the Catholic Library Associ-

ation for her lifetime contribution to children's literature.

The symposium begins at 8:45 a.m. with registration and book sales in the foyer of Daniel Auditorium. It continues throughout the morning and afternoon with the following speakers and topics:

9:30 a.m. -- Alan Schaffer, history professor at Clemson, "The Statue of Liberty, an American Symbol."

10:30 a.m. to noon -- concurrent sessions by these presenters:

- Jackie Eastman, University of Alabama department of English, "Ludwig Bemelmans."

- Robinette Kimble, English teacher at R.C. Edwards Junior High School in Central, "A Reading and Writing Connection: A Fictional, Historical Journal."

- Judith Stanton, assistant professor of English at Clemson, "The Noble Immigrant: Equine Stories for Children."

- Pamela Barron, University of South Carolina College of Information and Librarianship, "A Gift of Immigrants: European Folk Tales."

- Mimi Chang, Clemson graduate student in English education, "A Chinese Student and American Books for Children."

- Robert H. Waller, professor of history and dean of the College of Liberal Arts at Clemson, "Joseph Pulitzer and the Statue of Liberty."

1 p.m. luncheon -- Greta D. Little, University of South Carolina department of English, "H.A. Rey and Curious George: Strangers in a New Land."

2:30 p.m. -- autographing and book sales, Ramada Inn.

This symposium is free for University faculty, staff and students, and \$10 for the public.

However, you should preregister by Oct. 17 for the luncheon at the Ramada Inn. The cost is \$8. Send your check (payable to Clemson University) to Deuel Griffin in the English department.

For more information, call Malcolm Usrey, associate professor of English and symposium coordinator, at 656-5414.



UNIVERSITY WELCOMES NEW EMPLOYEES

The University welcomes these new members of Clemson's faculty and staff.

Accounting: Mary Ann Prater (Lecturer).

Architecture: Robert J. Hogan (Associate Professor), Virginia D. Lane (Visiting Assistant Professor).

Biological Sciences: Jon Weinstein (Assistant Professor).

Chemical Engineering: Keshawa P. Shulka (Research Associate).

Chemistry: Janice W. Dieter (Visiting Assistant Professor).

Civil Engineering: William Ledbetter (Professor).

Computer Science: David J. Pokrass (Assistant Professor).

Custodial Services: Shelby J. King and Jo Ann Whitner (Custodial Workers I).

Dairy Science: Betty C. Hawkins (Canteen Operator I).

Economics: Robert Clement (Instructor), Charles A. Diamond Jr. and Mason S. Gerety (Assistant Professors), David N. Laband (Associate Professor).

Electrical and Computer Engineering: Aaron S. Collins (Associate Professor), Allen E. Turner (Assistant Professor).

English: Michael R. Dickman (Visiting Instructor); Margaret M. Duggan (Visiting Assistant Professor); Nancy L. Kochuk (Assistant Professor); Carl R. Lovitt (Visiting Associate Professor); Thomas W. Russell (Associate Professor); Lorraine D. Knowling, Thomas E. Rash and Dennis C. Tool (Instructors).

Finance: John M. Harris Jr. (Assistant Professor).

Food Science: Don Johns (Associate Professor).

History: Stephen Sattris and Daniel E. Wueste (Assistant Professors).

Home Economics: Louise S. Gilliam (Administrative Specialist B).

Housing: Joan M. Ross (Custodial Worker I).

Industrial Education: John Leininger (Instructor).

Management: John Kanet (Professor).

Marketing: Stephen J. Grove (Assistant Professor), Richard T. Heagy (Visiting Instructor).

Mathematical Sciences: Michael M. Kostreva (Associate Professor).

Mechanical Engineering: Lawrence P. Golan (Associate Professor), Gordon G. Hastings and Cynthia C. Jara-Almonte (Assistant Professors), Jacobus Wiggenraad (Visiting Instructor).

Music: Mark N. Jessie (Visiting Instructor).

Nursing: Julia A. Eggert (Visiting Assistant Professor); Jill L. Adams, Allie S. Gooding, Corinne C. Harmon and Janet L. Timms (Visiting Instructors).

Personnel: Cynthia B. Wade (Clerical Specialist C).

Psychology: Janice G. Williams (Assistant Professor).

Sociology: Donna K. Crossman (Visiting Assistant Professor).

University Bookstore: Melinda Boggs and James D. Davis (Administrative Specialists A), Brenda Knighton (Clerical Specialist A).

University Relations: Mary S. Roche (Guide, Historical Site).

Utilities: Donnie H. Young (Trades Helper).

RESEARCH GRANT APPLICATIONS DUE BY NOV. 14

Applications for University Research Grant Committee funds are due in the Office of University Research by Nov. 14.

The committee accepts applications from faculty holding tenure/tenure track positions with titles of assistant professor, associate professor or professor and the equivalent library faculty ranks.

For more information or to obtain application forms and instructions, contact the Office of University Research, E-102 Martin Hall, 656-2375.

DEPARTMENTAL NOTES

ARCHITECTURE

R.W. Liska (Assoc Prof) conducted a seminar, "Structures and Building Maintenance," for the Bell South Co. in Birmingham, Ala., Sept. 15-16.

BIOLOGICAL SCIENCES

K.M. Peterson (Assoc Prof) presented "Interpreting Ages of Successional Communities in Drained Thaw Lake Basins Near Barrow, Alaska" at the international conference, "Restoration and Vegetation Succession in Circumpolar Lands," in Iceland Sept. 6-13.

During the conference, Peterson and his wife attended receptions hosted by Iceland's Minister of Education and Prime Minister and were invited to the home of Iceland's president.

CHEMICAL ENGINEERING

C.H. Gooding (Assoc Prof) presented "Modeling Hollow-Fiber Membrane Separation with Concentration-Dependent Diffusive Effects," written with Y.S. Hsu (Grad Stu), at the AIChE national meeting in Boston Aug. 24-27.

J.M. Haile (Prof) presented an invited seminar to faculty and graduate students in the department of chemical engineering at Johns Hopkins University Sept. 22.

S.S. Melsheimer (Prof) served as the external examiner of a Ph.D. dissertation defense for the University of South Florida's department of chemical and mechanical engineer-

ing Sept. 15.

CHEMISTRY

R.K. Dieter (Assoc Prof) presented:

-- three papers at the American Chemical Society meeting in Anaheim, Calif., Sept. 7-12: "Asymmetric Induction in the Conjugate Addition Reactions of Chiral Organo(hetero)cuprates," "Regioselective Alkylations and Diels-Alder Reactions of 4,6-Dialkyl Substitutes 2(H)-Pyran-2-ones," and "Synthesis of α -Pyrones from α -Oxo Ketene Dithioacetals."

-- an invited lecture on "Asymmetric Induction in Organocopper Conjugate Addition Reactions" at the Ninth Gulf Coast Chemistry Conference in Pensacola, Fla., Sept. 18-20.

Dieter published:

-- " α -Oxo Ketene Dithioacetals and Related Compounds: Versatile Three-Carbon Synthesis" in *Tetrahedron*, 42 (1986) 3029-3096.

-- "Synthesis of α -Pyrones from α -Oxo Ketene Dithioacetals" in *Tetrahedron Lett.*, 27 (1986) 3823-3826.

J.W. Huffman (Prof) presented "Enolization of Camphor by Hindered Amine Bases" at the Gulf Coast Chemistry Conference Sept. 18-20.

A.L. Kholodenko (Asst Prof) and A.L. Beyerlein (Prof) published:

-- "Modified Lauger-Zittartz Method for the Electrostatic Excluded Volume Problem" in *Physical Review A*, 33 (1986) 2640.

-- "Theory of Sym-

metric Electrolyte Solutions: Field-Theoretic Approach" in *Physical Review A*, 34 (1986).

Kholodenko gave a talk, "A New Real-Space Renormalization Group Method for Interacting Fermions at Infinite Temperatures," at the 16th International Conference in Statistical Mechanics in Boston in August. The paper will be published in the *Journal of Physics C*, 19 (1986).

A.R. Pinder (Calhoun Prof) and J.L. von Rosenberg (Prof) presented "Electrophilic Substitution in Arene-chromiumtricarbonyls" at the Ninth Gulf Coast Chemistry Conference Sept. 18-20.

CIVIL ENGINEERING

C.H. Juang (Assoc Prof) and R.D. Holtz (Prof, Purdue Univ) published:

-- "Fabric, Pore Size Distribution, and Permeability of Sandy Soils" in the *ASCE Journal of Geotechnical Engineering* (Sept. 1986).

-- "Preparation of Specimens of Noncohesive Material for Mercury Intrusion Porosimetry" in the *ASTM Geotechnical Testing Journal* (Sept. 1986).

ENGLISH

R.J. Calhoun (Alumni Prof) has been appointed editor of contemporary poetry for *American Literary Scholarship*, published by Duke University Press for the American Literature Section of the Modern

(Continued on page 8.)

(Continued from page 7.)

Language Association.

D. Tillinghast (Assoc Prof) published the poem "A Brunette" in the Georgia Journal, 6, No. 4 (1986) 37.

He also gave the inaugural reading for the Fletcher Lecture Series at Louisiana Tech University May 6.

INDUSTRIAL ENGINEERING

C.R. Lindenmeyer (Prof) and M. Williams (Director, Cooperative Education Program) were guests on WAXA TV's "Straight Talk" Aug. 3. They discussed the popularity of work-related experience for college students.

FORESTRY

D.C. Guynn (Prof) published "The Effects of Adult Sex Ratio on Reproduction in White-tailed Deer" in proceedings of the 1986 International Ranchers Roundup (Texas Agricultural Extension Service).

R.A. Harris received a S.C. Energy Achievement Award from the S.C. Energy Office for promoting the industrial and commercial use of wood as an alternative fuel. Gov. Dick Riley presented the award in a special ceremony.

D.N-S. Hon (Prof) published:

-- "A Practical Process for Cutting Cotton Fiber" in Textile Research Journal, 56, 333-336.

-- "Radiation Effects on Wood" in Encyclopedia of Materials Science and Engineering (1986).

-- "Weathering Characteristics of Hardwood Surfaces" with W.C. Feist (Forest Products Lab) in Wood Science and Technology, 20, 169-183.

-- "Photodegradation of Cellulose Nitrate" with L.G. Tang (Res Assoc) in Polymer Photochemistry, 7, 299-310.

F.H. Tainter (Prof) and S.W. Fraedrich (Grad Asst) published "Compartmentalization of Cerato-cystis fagacearum in Turkey Oak of South Carolina" in Phytopathology, 76, No. 7, 699-701.

T.M. Williams (Assoc Prof) and C.A. Greshman (Assoc Prof) published "Factors Important to Loblolly Pine Productivity on the Southeastern Coastal Plain of the United States" in the Swedish University of Agricultural Science department of ecology and environmental research Report No. 26.

G.W. Wood (Prof) and J.R. Davis (Grad Asst) published "Movements of White-tailed Deer in Coastal South Carolina" as Clemson's Department of Forestry Bulletin No. 50.

GRADUATE SCHOOL

D.B. Stone (Coordinator, Clemson at Greenville Tech) was

elected president of the S.C. Academy of Science.

LANGUAGES

H.M. Riley (Prof, German) published three articles in Critical Survey of Drama: Foreign Language Series (1986):

-- "Ludwig Tieck," pp. 1830-1841.

-- "Georg Buchner," pp. 266-275.

-- "August von Kotzebue," pp. 1083-1093

MATHEMATICAL SCIENCES

J.V. Brawley lectured on:

-- "Mathematics and Gambling" Sept. 23 at Tri County Technical College.

-- "Mathematical Games" Sept. 17 at a Daniel High School Mu Alpha Theta Club meeting.

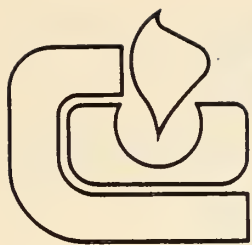
NURSING

C.L. Lenz (Acting Asst Dean, Academic Programs) published "Money as a Motivator" in the refereed Journal of Nursing Administration, 16, No. 9 (1986).

S.E. Barger (Acting Assoc Dean, Professional Services, and Assoc Prof) published "Academic Nursing Centers: A Demographic Profile" in the Journal of Professional Nursing, 2, No. 4 (1986) 246-251.

NATIONAL HIGHER EDUCATION WEEK

OCTOBER 25 TO 31, 1986



Events

INFORMATION FOR THE FACULTY AND STAFF OF CLEMSON UNIVERSITY

This calendar is prepared up to a month in advance. Please send in writing to the MASTER CALENDAR EDITOR, 103 Fike Center, any campus event that should be listed. You may also want to call 656-4993 to check the UNIVERSITY MASTER CALENDAR for possible scheduling conflicts. (Call the number listed in each entry for more information.)

October 17-24

CONFERENCES, LECTURES, MEETINGS AND SHORT COURSES

- 16-23 Short course: Relaxation Techniques. Sponsored by University Union (656-2461), 7-9:30 p.m. Thursdays, \$15.

- 19 Short Course: Second day of rock climbing and rapelling. Sponsored by University Union (656-2461), 8 a.m.-5 p.m., \$35.

- 20 Lecture: Richard Hayden, architect for the restoration of the Statue of Liberty. Sponsored by Clemson Architectural Foundation (656-3081), 8 p.m., Lee Hall Auditorium, free.

- 21 1986 Women's Seminar: "Where Does All Your Cash Go?" by John R. Warner. Sponsored by Small Business Development Center (656-3227). 7 p.m., 365 Sirrine Hall. \$5 employees, \$10 public.

- 21-28 Short course: Knitting. Sponsored by University Union (656-2461), 6:30-8:30 p.m. Tuesdays, \$16.50.

- 22 Annual Bosses' Appreciation Lunch. Sponsored by Professional Secretaries International (656-2249), noon-1 p.m., Clemson House ballroom, \$6.50. Reservations required.

- 22-24 Conference: Statistical Process Control. Sponsored by Continuing Engineering Education (656-3308), 9 a.m.-5 p.m., 101 Riggs Hall.

- 22-24 Conference: Micromeritics: Particle Size and Surface Area. Sponsored by Continuing Engineering Education (656-2200), Senate Chambers.

- 23 Short Course: Relaxation Techniques. Sponsored by University Union (656-2461), 7-9:30 p.m., \$15.

- 23-25 Conference: Hospitality and Tourism Invitational. Sponsored by parks, recreation and tourism management department (656-3400); Outdoor Laboratory; \$90, \$40 for students.

2023/24

2023/24

2023/24

2023/24

2023/24

2023/24

2023/24

2023/24

- 24-25 Meeting: South Atlantic Coast section of American Association of Physics Teachers (656-5306), Kinard Laboratory, free.

FILMS AND MUSIC

- 19 Movie: "Stripes." Sponsored by University Union (656-2461), 7 & 9:15 p.m., Y-Theatre, free with University I.D.
- 20 Movie: "Purple Rose of Cairo." Sponsored by University Union (656-2461), 8 p.m., Y-Theatre, \$1.
- 20 Film: "Les Comperes." Sponsored by languages department (656-3396), 7:30 p.m., 106 Daniel Hall, free.
- 21 Film: "The Jazz Singer." Sponsored by University Union and the Statue of Liberty Commemoration Committee (656-2461), 8 p.m., Edgars, free.
- 21 Chamber Music Series: Music of Immigrant Composers -- A Salute to the Statute of Liberty Centennial. Sponsored by Statue of Liberty Commemoration Committee (656-3854), 8 p.m., Daniel Hall Auditorium, free.
- 21 & 22 Film: "Another Man, Another Chance." Sponsored by Statue of Liberty Commemoration Committee (656-5415), 7:30 p.m., Y-Theater, \$2.
- 22 Film: "Kai Higashiyama: A Painter Who Lives and Paints in the Traditional Manner." Sponsored by the College of Architecture and Japanese Consulate General (656-3081), 3:30-4 p.m., 100 Lee Hall, free.
- 23 Entertainer: Barry Drake. Sponsored by University Union (656-2461), 9 p.m., Edgar's, \$1.
- 23-25 Movie: "The Color Purple." Sponsored by University Union (656-2461), 7 & 9:45 p.m., Y-Theater, \$1.50.

OTHER EVENTS

- 17 Tigerama '86: Fairy Tale Clemson, featuring a special Statue of Liberty fireworks display. Sponsored by Blue Key & WSBF (656-8465), 7:30 p.m., Memorial Stadium, \$1.50.
- 17 Volleyball: North Carolina, 7 p.m., Jervey Athletic Center (656-2101).
- 18 Men's and Women's Swimming: Orange and White Meet, 9 a.m., Fike Recreation Center (656-2101).
- 18 Football: Duke. Homecoming halftime celebration with Tiger Band salute to the Statue of Liberty, 1 p.m., Death Valley. (656-3380).

- 18 Homecoming show: George Burns. Sponsored by University Union (656-2461), 8 p.m., Littlejohn Coliseum. \$14.25, \$12.25, \$9.25.
- 18-19 Men's Tennis: Clemson Super Series, 1 p.m., Hoke A. Sloan Tennis Center (656-2101).
- 19 Hot Air Balloon Ride. Sponsored by University Union (656-2461).
- 19 Soccer: N.C. State, 2 p.m., Riggs Field (656-2101).
- 21 Nursing Center Open House. Tours, free blood pressure check and refreshments. Sponsored by the College of Nursing (656-3076), 3-6 p.m., Nursing Center, free.
- 24 Soccer: Indiana, 8 p.m., Riggs Field (656-2101).
- 24 Derby Day. Sponsored by Sigma Chi Fraternity (656-7380 or 656-7378), 1:30-6 p.m., rugby field, free.
- 24 Derby Day Dance. Sponsored by Sigma Chi Fraternity (656-7380 or 656-7378), 8 p.m.-1 a.m., National Guard Armory, \$10.
- Continuous YMCA-sponsored classes in women's and men's fitness, youth fitness, aerobics, exercise, Jazzercise, social dancing, Middle Eastern dance, swimming, gymnastics, lifesaving, and after-school day-care programs (656-2460).

Newsletter

Oct. 22, 1986
Vol 26 No 10

INFORMATION FOR THE FACULTY AND STAFF OF CLEMSON UNIVERSITY

OCT 22 1986

Use your liberty to learn!



NATIONAL HIGHER EDUCATION WEEK

celebrates the contributions of colleges and universities to American society, and focuses on the need for excellence at all levels of American education. Our nation's founders spoke eloquently of the vital importance of education in protecting our rights and freedoms.

OCTOBER 25 TO 31, 1986

RESEARCH GRANT APPLICATIONS DUE BY NOV. 14

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STATUE OF LIBERTY CELEBRATION CONTINUES THROUGH END OF OCTOBER

The University's Statue of Liberty celebration continues through the end of the month with various events and a special exhibition.

"Another Man, Another Chance" will be presented tonight (Oct. 22) at 7:30 p.m. at the Y-Theater. Admission is \$2.

Sponsored by Five Directions Cinema, the film examines the hardships of a couple immigrating from France to America at the turn of the century. Genevieve Bujold and James Caan star.

The Children's Literature Symposium Oct. 25 will feature books and presentations on immigrant authors and artists. The program begins at 8:45 a.m. in Daniel Hall Auditorium and Strode Tower.

Also on the 25th, a dinner will be sponsored by the International Student Association in the Palmetto Ballroom. The 5:30 p.m. dinner will feature a variety of international cuisines.

Tickets, \$4 for students and \$6 for the public, are available at the Union box office.

Alumni Professor of Economics Bruce Yandle will moderate a panel discussion on "Immigration Policy: Past, Present and Future" Oct. 29.

Sponsored by the Strom Thurmond Institute, the program will be held at 3:30 p.m. in Tillman Hall Auditorium.

The panel includes Professors William Shughart of George Mason University, Richard Bernard of Auburn University and Julian Simon of the University of Maryland.

The national Statue of Liberty/Ellis Island Exhibition will be on display through Oct. 31 in Lee Hall Gallery.

The exhibition includes more than 100 photographs and drawings of the Statue of Liberty's year-long restoration process.

Lee Hall Gallery is open to the public 8 a.m.-4:30 p.m. Monday through Friday and 2-5 p.m. Sunday.

Oct. 25-31 has been proclaimed National Higher Education Week in South Carolina by Gov. Dick Riley. The themes for the week, sponsored by the Council for Advancement and Support of Education, are "Education is Freedom" and "Use Your Liberty to Learn."

UNITED WAY CAMPAIGN DEADLINE EXTENDED

United Way campaign coordinators have extended the deadline for contributions to Oct. 24.

For more information about making donations to the many area service programs supported by the United Way, call Frank Mauldin or Jackie Greene in the Office of Human Resources, 656-3181.

EXTENSION SERVICE OFFERS SOLAR GREENHOUSE PUBLICATION

The Extension Service has a special publication for gardeners who have access to a solar greenhouse.

Extension circular 622, "Vegetable Growing in Solar Greenhouse Residences," contains 15 pages of information on solar greenhouses and how to build them, the types of plants to grow in solar greenhouses and when to plant.

There's also information on disease and insect pests on plants grown in solar greenhouses.

Much of the information is based on research in a solar greenhouse attached to an experimental solar home built on the Clemson campus in the late 1970s.

Free copies of the publication are available from county Extension offices and the Bulletin Room, 83 Poole Agricultural Center.

NINE MORE DAYS LEFT ON 1986 HOLIDAY SCHEDULE

The holiday schedule for the rest of 1986 includes nine days:

Election Day/

Fall Break ... Nov. 3, 4

Thanksgiving .. Nov. 27, 28

Christmas Dec. 22-26

If you have any questions about holiday leave, call the Personnel Office at 656-2426.

CHEMISTRY PROFESSOR GETS FELLOWSHIP TO WEST GERMANY

John Petersen, associate dean of the College of Sciences and professor of chemistry, will spend eight months studying and conducting research in West Germany under a prestigious Alexander von Humboldt Research Fellowship.

He will leave Dec. 13 for his research sabattical at the University of Regensburg.

While there he will continue his research on solar energy and the development and study of new chemical compounds that might have good conductive or energy-transfer properties.

Alexander von Humboldt Research Fellowships are awarded each year on a worldwide, competitive basis to fewer than 500 young scholars.

While at Regensburg, Petersen and his family will live in a university-owned guest house and his two children will attend a public school.

He plans to return to Clemson in time for the fall 1987 semester.



Petersen

STUDENTS TO MARCH SUNDAY AGAINST DRUG ABUSE

Students at Daniel High School and Clemson's Alpha Phi Omega service fraternity will kick off the "Say No to Drugs and Yes to Life" campaign Oct. 26 with a march along Highway 93.

The walk will begin at 2 p.m. at the intramural field and end with a program in the amphitheater.

Daniel's student group, ESUBA ("abuse" spelled backwards), already has presented numerous programs to other youth groups in the area to increase awareness of the drug abuse issue.



The Clemson University Newsletter is published for firefighter William Daniel and for all members of the faculty and staff by the Division of University Relations.

University Newsletter Editor .. Deborah M. Slick
Acting Director, News Services .. Catherine Sar

We welcome your comments and suggestions. Call us at 656-4989 or write us at 103 Fike Center. DEADLINE is Nov. 5, noon, for Nov. 12 issue.

FOOD SCIENTIST SAYS PROCESSED FOOD IS SAFE

by John Padgett

Have you ever wondered if that bagful of groceries is really safe for you? Cheer up -- it is.

All the various additives, pesticides and other chemicals used in food production are safe, said John Surak, associate professor of food science.

Pesticide manufacturers, he said, must conduct extensive tests and follow federal and state regulations concerning types and amounts of pesticides and insecticides used on crops.

Food additives also are tested extensively to ensure that they are safe to use in food.

When an additive is determined as safe, it is approved for use under strict conditions, which include specifying certain foods the additive may be used with, the maximum quantities that may be used and the labeling instructions.

"Food additives include not only preservatives, but also vitamins, nutrients and other necessary components of the food," Surak said.

"Health foods" may not be better for you than regular foods, he said.

"In fact, in some cases they actually may be worse. Consumers in California recently have gotten sick after drinking raw (unpasteurized) milk."



Surak

Surak said the processing of food does detract from its nutritional value. In fact, processors fortify food to improve its nutritional quality.

"We should remember that any single food is not nutritionally complete," he said.

"We eat a variety of foods to get the right mixtures of nutrients."

DEPARTMENTAL NOTES

AGRICULTURAL EDUCATION

J.H. Rodgers (Prof and Head) was invited to attend the National Conference for Leaders of Postsecondary and Adult Education in Agriculture and Natural Resources, sponsored the first week of October by the U.S. Department of Education.

EXTENSION HOME ECONOMICS

R.H. Cox (Asst Prof), E.H. Hoyle (Assoc Prof) and R.J. Davis (Prof) attended the 1986

National Extension Food and Nutrition Workshop in Atlanta Sept. 14-18.

At the conference:

Hoyle presented a poster session, "Food and Nutrition Leader Guides for Limited Reading Level Adults," and a paper, "Networking for Healthy Mothers, Healthy Babies."

Davis presented "Diet Puzzle: A Comprehensive Weight Control Program" and "Combining Limited Resources for Effective Nutrition Education -- Better Eating

for Better Health."

Davis presented a seminar on nutrition and cancer for the Southeast Dairy and Food Nutrition Council Sept. 29 in Atlanta.

C.T. Mounter (Assoc Prof) was an invited member of a research team to evaluate the results of a national Federal Extension Service study, "The Implications of Volunteerism in Extension," in September.

Mounter and A.B. Yelton (County Agent)

(Continued on page 4.)

(Continued from page 3.)

participated in a conference on family community leadership in Denver in September.

INDUSTRIAL ENGINEERING

J.S. Greenstein (Assoc Prof) presented "A Lead-Lag Compensation Approach to Display/Control Gain for Touch Tablets" at the 30th Annual Meeting of the Human Factors Society Sept. 30-Oct. 3 in Dayton, Ohio.

W.J. Kennedy Jr. (Prof) addressed the New York State Board for Engineering and Land Surveying in an effort to allow industrial engineers to be evaluated for professional registration on the basis of an exam including specific industrial engineering questions. The board voted to support his proposal.

LANGUAGES

M. Cranston (Prof, French) reviewed Irene Schavelson's Le reduct in World Literature Today, 60, No. 3 (summer 1986) 447.

PARKS, RECREATION AND TOURISM MANAGEMENT

C. McDonald (Asst Prof) and F. McGuire (Assoc Prof) received a \$59,000 grant from the National Park Service to develop outdoor recreation management plans for several federal facilities.

F.A. McGuire (Assoc Prof) published "Reflections on the Peer Review Process in Journal Publications" in Adapted Physical Activity Quarterly, 3, No. 4.

McGuire received a \$40,000 grant from the American Association of Retired Persons/Andrus Foundation to study the use of national parks by older Americans.

R. McLellan (Prof) and M. Uysal (Asst Prof) published "Recreation and Park Congress" in Annals of Tourism Research, 12, No. 4 (1986).

Uysal, Lu Wei (Grad Stu) and L.M. Reid (Prof, Texas A&M Univ) published "Development of International Tourism in the People's Republic of China" in Tourism Management, 7, No. 2.

Uysal, J.T. O'Leary (Prof) and F.D. Dottavio (National Park Service) presented "Public Acceptance of Fees/Charges in the National Parks: A Nationwide Study" at the National Recreation and Park Association Conference in Anaheim, Calif.

Uysal, O'Leary, Dottavio and K.K. Cordell (U.S. Forestry Service) presented "Travel Patterns of the American Public: Participation in Selected Outdoor Recreation Activities" at the Tourism Services Marketing Conference sponsored by the Academy of Marketing Science and the marketing department at Cleveland State University.

PHYSICS AND ASTRONOMY

P.B. Burt (Prof) presented "New, Nonperturbative Approaches to Nonlinear Theories" Oct. 2 at the University of Georgia.

A.L. Laskar (Prof) presented:

-- an invited paper,

"Diffusion of Cesium, Cerium and Sulfur in Silver Halides and Size Effects of the Solutes" at the International Congress of Photographic Science Sept. 10-17 in Cologne Germany.

-- a colloquium, "Physics of Silver Halides," at the Max Planck Institute, Stuttgart, Sept. 16.

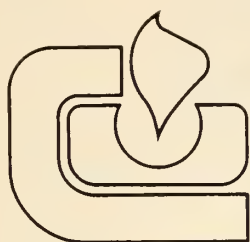
-- two papers at the Fifth Europhysical Topical Conference on Lattice Defects in Ion Crystals Sept. 8-12 in Madrid: "Study of Ion Thermocurrent in Potassium and Rubidium Azides," written with W.B. Mealing (Former Grad Stu); and "Size Effect the Solute on the Impurity Diffusion in Silver Halides," written with K.V. Reddy (Vstg Asst Prof), B. Popson (Grad Stu) and S. Mitra (Former Grad Stu).

J.R. Ray (Prof) presented a talk, "Spin and Gravitation," to scientists with NASA at the University of Alabama Sept. 25.

Ray and H.W. Graber (Prof) published "Fundamental Treatment of the Isoenthalpic-Isobaric Ensemble" in Physical Review A, 34 (September 1986) 2517.

PLANT PATHOLOGY AND PHYSIOLOGY

O.W. Barnett (Prof) published a chapter, "Application of New Test Procedures to Surveys: Merging the New With the Old," in Developments in Applied Biology I: Developments and Applications in Virus Testing (1986) 247-267.



Events

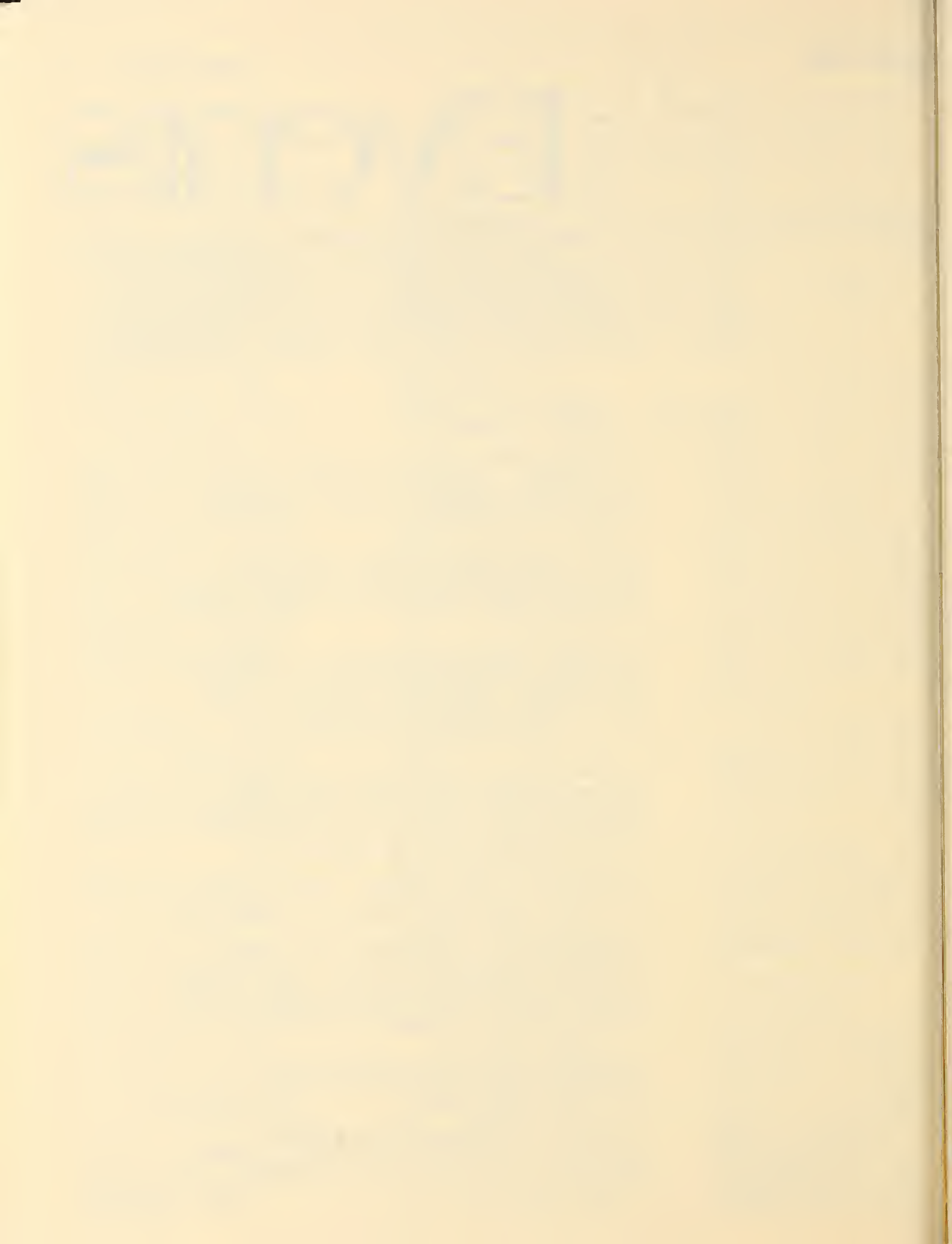
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October 24-31

CONFERENCES, LECTURES AND MEETINGS

- 23-25 Conference: Hospitality and Tourism
Invitational. Sponsored by parks, recreation
and tourism management department (656-3400),
Outdoor Laboratory, \$90.
- 24-25 Meeting: South Atlantic Coast section of
American Association of Physics Teachers.
Hosted by Clemson University (656-5306), Kinard
Laboratory, free.
- 25 Children's Literature Symposium: "An American
Immigrant to America" by Jean Fritz, children's
book author. Sponsored by College of Liberal
Arts and English department (656-5414), 8:45 a.m.-
2 p.m., Daniel Hall and Strode Tower, \$10.
- 27 Lecture: "Painting and Architectural Sculpture"
by London painter and sculptor Brian Yale.
Sponsored by the Clemson Architectural Founda-
tion (656-3879), 8 p.m., Lee Hall Auditorium,
free. A reception will be held afterward.
- 28 Workshop: Stone Fruit Decline. Sponsored by
horticulture department (656-3403), Ramada Inn.
- 29 Roundtable on U.S. Immigration Policy: Past,
Present and Future. Sponsored by Strom Thurmond
Institute of Government and Public Affairs and
Statue of Liberty Commemoration Committee (656-
3970), Tillman Hall Auditorium, 3:30 p.m.
- 29-31 Conference: Statistical Process Control.
Sponsored by Continuing Engineering Education
(656-2200), Riggs Hall.
- 30-31 Conference: Southeastern Peach Workers.
Sponsored by horticulture department (656-3403),
Ramada Inn.



31- Meeting: Second Annual Scientific Session of the
Nov. 1 Academy of Surgical Research. Sponsored by
Bioengineering Alliance and Continuing
Engineering Education (656-5563), 9 a.m.-5 p.m.,
Ramada Inn, \$135.

ART, MOVIES AND PERFORMANCES

Through Exhibit: Statue of Liberty/Ellis Island
Oct. 31 photographs and drawings. Sponsored by the
Statue of Liberty Commemoration Committee
(656-3883); 8 a.m.-4:30 p.m. weekdays, 2-5 p.m.
Sunday; Lee Hall Gallery.

24-25 Movie: "The Color Purple." Sponsored by
University Union (656-2461), 7 & 9:45 p.m.,
Y-Theatre, \$1.50.

25 Concert: David Lee Roth. Sponsored by
University Union (656-2461), 8 p.m., Littlejohn
Coliseum, \$15.25.

26 Movie: "Kelly's Heroes." Sponsored by
University Union (656-2461), 7 & 9:30 p.m.,
Y-Theatre, free with University I.D.

27 Movie: "The Black Hole." Sponsored by Univer-
sity Union (656-2461), 8 p.m., Y-Theatre, \$1.

27 Film: "La Linea del Cielo." Sponsored by
languages department (656-3396), 7:30 p.m., 106
Daniel Hall, free.

28 Video: "Psycho." Sponsored by University Union
(656-2461), 8 p.m., Edgar's, free.

29 Film: "Aquaculture in Japan." Sponsored by
College of Architecture and Japanese Consulate
General (656-3081), 3:30-4 p.m., 100 Lee Hall,
free.

30 Movie: "Nightmare On Elm Street Part II."
Sponsored by University Union (656-2461),
8 p.m., Y-Theatre, \$1.50.

30 Performing Artist Series: "Goodnight, Mr. Poe,"
dramatic interpretation performed by Scott
Keely. Sponsored by University Union and Alumni
Association (656-2461), 8 p.m. Tillman Hall Audi-
torium, \$3 students & senior citizens, \$6 public.

OTHER EVENTS

24 Soccer: Indiana, 8 p.m., Riggs Field (656-2101).

24 Derby Day. Sponsored by Sigma Chi Fraternity
(656-7380 or 656-7378), 1:30-6 p.m., rugby
field, free.



- 24 Derby Day Dance. Sponsored by Sigma Chi Fraternity (656-7380 or 656-7378), 8 p.m.-1 a.m., National Guard Armory, \$10.
- 25 International Student Dinner. Sponsored by International Student Association and Statue of Liberty Commemoration Committee (656-6398), 5:30 p.m., Palmetto Ballroom, University Union, \$4 members, \$6 public.
- 25 E.I.T. Examination for engineering students with 95 hours. Sponsored by College of Engineering (656-2406), Riggs Hall, \$30.
- 25 Octoberfest. Sponsored by University Union (656-2461), \$15, Helen, Ga.
- 25-31 National Higher Education Week.
- 26 Soccer: UCLA, 3 p.m., Riggs Field (656-2101).
- 27 Last day to withdraw from class or the University without final grades.
- 28 Short Course: Knitting-Session II. Sponsored by University Union (656-2461), 6:30-8:30 p.m., \$16.50.
- 28 Volleyball: Winthrop College, 7 p.m., Jervay Athletic Center (656-2101).
- 30 Short Course: Body Massage-Session I. Sponsored by University Union (656-2461), 7-10 p.m., \$15.
- 30-31 Preregistration.
- 31- Women's Tennis: Clemson Tournament, Hoke A.
Nov. 2 Sloan Tennis Center (656-2101).
- Continuous YMCA-sponsored classes in women's and men's fitness, youth fitness, aerobics, exercise, Jazzercise, social dancing, Middle Eastern dance, swimming, gymnastics, lifesaving, and after-school day-care programs (656-2460).

Newsletter

OCT 27 1986

Oct. 27, 1986
Vol 26 No 11

INFORMATION FOR THE FACULTY AND STAFF OF CLEMSON UNIVERSITY

Governor Helps Break Ground at Clemson Research Park

Groundbreaking ceremonies for the 210-acre Clemson Research Park were held Oct. 16.

Gov. Dick Riley was on hand for the shoveling ceremonies at the park, which he called a prime example of how educational excellence and economic development come together to form progress -- progress through research."

President Max Lennon echoed Riley's emphasis on research and education and called the research park a "significant commitment that will pay off in the form of sustained economic growth for the 21st century."

Located in Anderson County about eight miles from campus, the park is being developed by the S.C. Research Authority as part of a statewide effort to attract high technology industries to the state.

The University will be the first tenant in the park, establishing a 40,000-square-foot computer resources center.

The Board of Trustees Oct. 18 accepted a development proposal for construction of the building.

The proposal from Keenan/Clemson Associates was deemed the most cost-effective of eight submitted for the project.

The proposal calls for the University to lease the facility from the developer for 20 years. At the conclusion of the lease period, the University will have the option of buying the building for \$1.

Clemson's computer center and information systems development divisions face a severe space problem, and Provost David Maxwell said at the groundbreaking ceremonies that the new facility will give the center the room it needs.

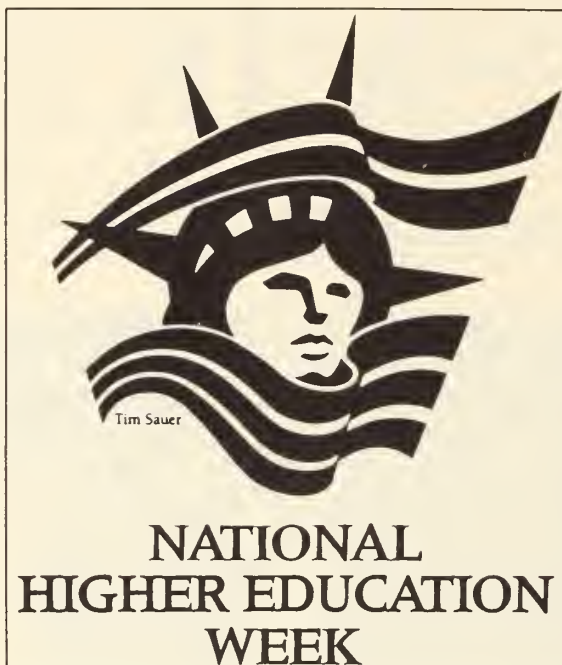
"We literally have computers sitting on hallways, and demand for computing services from faculty, staff and students, as well as off-campus clients such as other state agencies, is growing tremendously," Maxwell said.



President Max Lennon, Gov. Dick Riley and Anderson County Council Chairman Harold Beebe break ground for the Clemson Research Park. A University computer facility will be the first park tenant.

Construction of the building should be completed by the end of next year.

The park should help attract to the area industries with interests in research already under way at Clemson, such as electronics, fiber and polymer materials, advanced engineering fibers and composite materials, crop genetics, biomaterials, farm machinery, forestry products and robotics.



UNIVERSITY ESTABLISHES EARTH SCIENCE DEPARTMENT

A new department of earth science has been established out of a split between two academic programs formerly handled by the department of chemistry and geology.

The split was prompted by the upcoming move of the chemistry program to a new building, said Henry Vogel, dean of the College of Sciences.

The earth science department has seven full-time faculty members and active research projects involving groundwater quality and quantity, structure and mineralogy of rock formations, glacial deposits, paleoenvironments and fossil correlations, and other geological studies in the Piedmont and Southern Appalachian regions.

Rich Warner has been named acting department head while the search for a permanent administrator takes place.

Warner said the change in the program's status and name will not affect the geology curriculum.

The department will continue to offer a bachelor of science and bachelor of arts degree.

NATIONAL GROUP TAPS CLEMSON FOR DROPOUT PREVENTION CENTER

Clemson has been chosen as the site for a national center aimed at preventing school dropout.

The New York-based Dropout Prevention Fund, founded by South Carolina native Esther Ferguson, has made a financial commitment to help Clemson establish a national Dropout Prevention Center.

The announcement will be made here this week in conjunction with a speech by Ferguson.

Ferguson will speak on the dropout problem and the work of the Dropout Prevention Fund Tuesday, Oct. 28, at 11:15 a.m. in Tillman Hall auditorium. Her address is open to all students, faculty and staff.

The fund's goals are to focus public attention on the dropout problem through a national media awareness campaign employing celebrities such as Bill Cosby, who has recorded a series of radio public service announcements.

The fund also has pledged to support an ongoing dropout prevention program in New York City.

It hopes to raise \$15 million over the next five years to support those goals.

President Max Lennon serves on the fund's board along with Ferguson and her husband James, chairman and chief executive officer of General Foods.

Among the other 22 members are Walter Anderson, editor of Parade magazine; former Cabinet members Joseph Califano and William T. Coleman Jr.; John Mack Carter, editor of Good Housekeeping magazine; Camille (Mrs. Bill) Cosby; Richard Munro, president of Time Inc.; and Albert Shanker, president of the American Federation of Teachers.

Gordon Gray, head of the department of elementary and secondary education, said the Clemson center will serve as a clearinghouse for research and information on the dropout problem.

It will be headquartered in the College of Education, but will be a multi-disciplinary effort. A proposal to establish it has passed committee review and is pending before the state Commission on Higher Education.

Education professor Dick Hamby is acting director of the Clemson center, which plans to recruit a permanent director and staff over the next nine months.

ADDRESS

by Esther Ferguson, Chairman of the
Dropout Prevention Fund, New York
Tuesday, Oct. 28 at 11:15 a.m.
Tillman Auditorium

DUCKENFIELD NAMED VICE PROVOST FOR INFORMATION TECHNOLOGY

Chris Duckenfield has been named vice provost for computing and information technology.

This position was established in recognition of the increasingly vital role computers play in the University's daily operations.

The post involves supervision of more than 250 full- and part-time employees and a \$7 million-a-year budget.

Duckenfield came to Clemson in 1978 as director of the computer Center and was named director of all computing services in June 1985.

BDC NAMES NEW SATELLITE MANAGER

Clemson's Small Business Development Center has named a new manager for its Greenwood office.

Jean Pudlo has been appointed head of the satellite office at Anderson College. She succeeds David Taylor, who now is director of the program.

Pudlo, who earned her master's degree at Northwestern University in 1983, has served as member-services manager with the Laurens County Literacy Council.

The Small Business Development Center serves 11 counties in the Upstate, offering one-on-one consultation, continuing education programs and information services to small businesses.

SURGEONS MEET TO TACKLE ACCREDITATION QUESTION

Scientists and researchers whose work involves surgical experimentation on animals will tackle the issue of accreditation here at the annual meeting of the Academy for Surgical Research Oct. 31-Nov. 1.

(Continued on page 4.)

MILITARY SCIENCE DEPARTMENT CELEBRATES ROTC WEEK

Football won't be the only things soaring through the air at the UNC game Nov. 8, as the U.S. Army parachute team, the Golden Knights, enter the stadium with a graceful, 13,500-foot descent.

This pre-game show is part of ROTC Week, the military science department's salute to Clemson's cadet corps and Army and Air Force veterans.

ROTC Week begins Nov. 2 and ends Nov. 8, and an Army/Air Force Veterans Day flag-raising ceremony is scheduled for noon on Nov. 11.

The highlight of the week will be when the Golden Knights parachute into the football stadium, said Maj. Pete Stockunas, assistant professor of military science.

One of the parachutists will land at the 50-yard line to present the game ball to President Max Lennon.

In addition, four F-16 aircraft will fly over the stadium during the halftime show.

Capt. Fred Conner, assistant professor of aerospace studies, said the Air Force ROTC will sponsor several other events during ROTC Week:

- A model of the U.S. Air Force's F-15 Eagle will be displayed in the lobby of Cooper Library through Nov. 7, as well as an exhibit featuring the many technological advances that have resulted from the military's biomedical research.

- An engineering exhibit in the Loggia will focus on Air Force logistical products.

- Clemson graduate Brigadier General Hap Carr, director of inspection at the Air Force Inspection and Safety Center, will make several presentations on industrial safety to students in the College of Commerce and Industry.

For more information, call Conner at 656-3254 or Stockunas at 656-3107.



The Clemson University Newsletter is published for Oneida Clayton, Housing's Custodian of the Month for August, and for all members of the faculty and staff by the Division of University Relations.

University Newsletter Editor .. Deborah M. Slice
Acting Director, News Services .. Catherine Sams

We welcome your comments and suggestions. Call us at 656-4989 or write us at 103 Fike Center. DEADLINE is Oct. 30, noon, for Nov. 12 issue.

(Continued from page 3.)

A panel representing veterinarians and physicians, technicians, federal regulatory agencies, animal welfare representatives and industry will debate the question of whether people who perform surgery on laboratory animals should be accredited, under what criteria and by whom.

The conference is sponsored by Clemson, the Medical University of South Carolina, the University of South Carolina and the University of Georgia.

TIME MAGAZINE SPONSORS COLLEGE ACHIEVEMENT AWARDS

Juniors in all academic disciplines may apply for Time Magazine College Achievement Awards.

Applications must be postmarked by Dec. 31.

Time's panel of regional judges will select winners who have excellent academic and extracurricular records.

Each of the 20 top winners will receive a cash prize of \$2,500. Eighty finalists will receive \$250 each.

If you would like to tell your students more about Time's awards, call Teresa Evans in the Office of Student Life, 656-5994.

BUSINESSES' CONTRIBUTIONS TO EDUCATION HIGH IN 1985

Last year, for the first time, corporations gave more to higher education than did alumni.

The national Council for Financial Aid to Education also reports that corporations gave almost as much to public as to private institutions.

A significant part of corporate contributions came in the form of equipment, especially data processing and research equipment.

Total support of education in 1985 was \$6.32 billion.

STAFF COMMISSION SETS AGENDA FOR 1986-87

The Commission on Classified Staff Affairs heard at its Oct. 14 meeting an update on salaries and reclassifications and announced the commission's agenda for this academic year.

Juliette Dais, classification and compensation manager, told the group that the University anticipates having authority to classify positions up to a certain grade level and to approve hiring above the minimum salary level.

She also said the Personnel Office will be conducting a number of job description workshops in December to help supervisors and their staff develop better job descriptions.

Commission Chair Pat Padgett said that addressing the issue of pay increases and other salary matters is high on the commission's agenda this year.

"The commission's charge is to study staff concerns, including compensation, benefits, fair employment practices, development of job and supervisory skills and the general welfare of classified employees," she said.

"Additionally, we forward recommendations to the President's Council and administrators concerning policies that affect classified staff."

The commission's agenda for 1986-87 includes studying several issues: pay increase programs, a salary survey for classified staff, the feasibility of separation from the state classification system, employee awards, training programs, educational leave for classified staff, day care and wellness programs, a faculty-staff cafeteria funding for staff research projects, and evaluation of the Personnel Manual.

"These areas are under study now," Padgett said, "however, we need to hear from the 2,280 staff employees on campus about other concerns we should address."

"The Commission handles each concern brought before us with sensitivity and confidentiality," she said.

A suggestion from the commission and other employees has been acknowledged recently by the administration.

President Max Lennon appointed Padgett chair of a committee to study the feasibility of establishing a child care center at Clemson and to recommend action on the issue.

The committee consists of nine other faculty and staff members.

For more information on what the Staff Commission does for Clemson employees or to express a concern, contact the commission at campus P.O. Box 2121.

UNIVERSITY WELCOMES NEW EMPLOYEES

The University welcomes these employees who joined Clemson in August and September:

Agricultural Communications: Judith Aska (graphics artist).

Agricultural Education: Jane Peterson (administrative specialist).

Athletics: Adrienne Halfacre (superintendent of grounds), Warren Moore (groundskeeper), John Seketa (administrative assistant/coach).

Boengineering: Leray Maw (administrative specialist).

Biological Sciences: Barbara Speziale (research assistant/assistant professor).

Biology: James Schaadt (lecturer).

Building Maintenance: Robert Pettigrew (trades helper).

Chemical Engineering: Amod Ogale (assistant professor).

Chemistry: Dominic Hunt (lecturer/lab coordinator).

Civil Engineering: Dana Irvin (administrative specialist).

Custodial Services: Sarah Perry (custodial worker).

Dairy Science: Alice Holliday (agriculture supervisor).

Economics: Donald Gordon (Abney Chair/professor).

Electrical and Computer Engineering: Teresa Dickman (administrative specialist), Ronald Harley (visiting professor).

Elementary and Secondary Education: William Fisk (associate professor).

English: Alexander Coleman (instructor).

Extension Service: Jo Ann Greenwood (administrative specialist), Bonnie Page (information research coordinator), Michael Roberts and Donald Smith Jr. (computer technicians).

Financial Management: Diane Carey (accounting technician).

Grounds: Melody Parks (laborer), Stephen Williams (heavy equipment operator).

Home Economics: Virginia Jackson

(program assistant).

Information Systems Development: David Smith (systems programmer).

Languages: Joan Bridgewood (lecturer).

Laundry: Hazel Clinkscales, Antionette Galloway and Jack Thrower (laundry workers).

Library: Rickie Brink, Patricia Dunham and Cynthia McClelland (library technician assistants).

Parks, Recreation, and Tourism: Daniel Pervorse (lecturer).

Personnel: Michelle Baca (clerical specialist).

Physical Plant: Edward P. Willey III (vehicle operator).

Planning Studies: Margaret Foster (visiting associate professor).

Publications and Graphics: Carol Ryan (word processing specialist).

Small Business Development Center: Jean Pudlo (staff development training coordinator).

Sociology: Martha Bridges (administrative specialist).

University Bookstore: Tony Anderson (data coordinator).

University Relations/Visitors Center: Pauline Laffitte (public information specialist).

RESEARCH GRANT APPLICATIONS DUE BY NOV. 14

Applications for University Research Grant Committee funds are due in the Office of University Research by Nov. 14.

The committee accepts applications from faculty holding tenure/tenure track positions with titles of assistant professor, associate professor or professor and the equivalent library faculty ranks.

For more information or for application forms and instructions, contact the Office of University Research, E-102 Martin, 656-2375.

HISTORY PROFESSOR RESEARCHES 16TH-, 17TH-CENTURY WITCH CRAZE

by John Padgett

Halloween is right around the corner, meaning, of course, that soon ghosts, goblins and witches will be knocking on your doors, demanding "Trick or treat!"

That's all very fine and good, since most people today don't believe in witches. But in 16th- and 17th-century Europe, courts persecuted and prosecuted tens of thousands of accused witches.

"Between the years 1560 and 1640, approximately 100,000 people were executed for allegedly practicing witchcraft," said history Professor Richard Golden.

Golden teaches a class called "The European Witch Craze" and is writing a book on witch hunters in 16th- and 17th-century Germany, France and England.

"The stereotype of witches today is rather accurate, since most of the accused were female (spinsters or widows), poor, ugly and old," he said.

"During these years, more women were executed for witchcraft than for all other crimes put together. This was the most woman-hating period in European history.

"Fifty thousand people alone were executed in Germany, and this doesn't even take into account the number that were tortured, branded, exiled or acquitted."

Most of those executed were accused of practicing "diabolical witchcraft," Golden said, "which includes going to a sabbat (witches' Sabbath), making pacts with the devil, committing perverse sexual activities such as sodomy and incest with the devil and others, engaging in anti-human activities such as cannibalism, and working together to overturn Christian society."

On the European continent, convicted witches were burned at the stake, although sometimes they were "mercifully" strangled before burning. English law, however, specified that witches be hanged.

"Judges used various means of torture -- the rack, thumb- and leg-screws, and the strappado -- to produce a confession, which was necessary for a conviction," Golden said.

"Torture was widely approved for witch trials because everyone believed God would not allow an innocent person to be convicted.



History Professor
Richard Golden

"Some people actually asked for torture because of this belief," he said. "However, those who asked for torture ended up confessing anyway."

Several factors contributed to the witch-hunting craze, including the reintroduction of torture under readopted Roman law, worsening socio-economic conditions and new social patterns.

Plagues, wars and famines all seemed to point to the increasing power of the devil.

During the 16th century, new marriage patterns emerged in which many women did not marry and remained outside patriarchal control.

"Men feared what they could not control, so they ended up executing many threatening women as witches," Golden said. "Most witchcraft, however, was beneficent.

"Various forms of witchcraft were prevalent in European society, including practicing herbal and faith healing, predicting the future, locating buried treasure and providing love potions."

One source of the terrifying image of the witch was the ancient Greek myth of the lamia, a sorceress who was believed prey upon humans and suck children's blood.

The black cat was symbolic of the secrecy and evil of diabolical witchcraft, as was the full moon -- a pale, cold reflection of the sun.

"Halloween began with a Celtic festival called Samhain, in which bonfires were lit to bring back the winter sun," Golden said.

The modern concept of Halloween came to the United States during the 19th century.

DEPARTMENTAL NOTES

BIOLOGICAL SCIENCES

E.P. Pivorun (Prof):

-- has been awarded a \$3,920 grant by the National Institutes of Neurological and Communicative Disorders and Stroke for two years of research.

-- served as a panel member to evaluate proposals submitted to the National Science Foundation's Teacher Enhancement Program in Pre-College Science and Mathematics Education in Minneapolis.

-- published "Hypothalamic Thermosensitivity in Hibernating Chipmunks, Tamias striatus" in Physiological Zoology.

-- published with H. Steward (Stu) "Serotonergic and Dopaminergic Modulation of Daily Torpor in Peromyscus maniculatus" in Living in the Cold: Physiological and Biochemical Adaptations.

-- published with L. Steward (Grad Asst) "Effect of Intrahypothalamically Administered Norepinephrine, Serotonin and Bombesin on Thermoregulation in the Deermouse" in Brain Research.

BUSINESS SERVICES

L.J. Rice (Risk Manager) passed the Certified Insurance Counselor examination given by the Carolinas Association of Professional Insurance Agents.

CHEMICAL ENGINEERING

W.F. Beckwith (Prof) received a \$3,000 grant from Union Camp Corp. in Astover for the pulp and

paper program.

C.H. Gooding (Assoc Prof) presented "Pervaporative Dehydration of Ethanol" at the Fourth Southern Biomass Energy Conference at the University of Georgia.

CHEMISTRY

K. Dill (Assoc Prof) and R.D. Carter (Grad Stu) presented "¹³C-NMR Studies of the Carbohydrate Residues of Glucoamylase Obtained From Aspergillus Oryzae" at the Southeast Magnetic Resonance Conference at Vanderbilt University Medical Center, Nashville.

J.D. Petersen (Prof and Assoc Dean) presented a seminar, "Photochemistry of Polymetallic Complexes," at the University of Rochester in New York.

G.T. Tissue (Assoc Prof) received a \$10,500 grant from the International Atomic Energy Agency to install X-ray fluorescence spectrometer components at the Bolivian Institute of Nuclear Science and Technology. He and R.T. Keel (Grad Stu) will travel to La Paz in December to set up the equipment.

CIVIL ENGINEERING

S.C. Anand (Prof):
-- chaired a session, "Advances in Analysis of Structural Masonry," at the ASCE National Structures Congress in New Orleans.

-- presented "Temperature and Creep Stresses in Composite Masonry Walls," written with M.A. Rahman (Grad Stu), at the ASCE

conference.

-- presented "Microcomputers in Teaching Structural Analysis and Design" at the International Society for Engineering Education Symposium in Austria. At the conference, he also chaired a session on "New Media and Teaching Technology."

ELECTRICAL AND COMPUTER ENGINEERING

D.J. Dumin (Rhodes Prof) presented an invited talk, "Semiconductor Technology: Devices and Characterization," at the Radiation Damage in Semiconductor Devices Conference in Washington.

T.S. Taylor (Grad Stu) presented "Effects of Charge Injection on Thin Oxide Polysilicon Gate MOS Capacitor Characteristics," written with M.A. Ditali (Grad Stu), D.J. Dumin, P.A. Williamson (Res Assoc) and D.A. Baglee (Texas Instruments), at the Electrochemical Society fall meeting in San Diego.

ELEMENTARY AND SECONDARY EDUCATION

D.E. Barrett (Assoc Prof) presented "Undernutrition and Child Behavior: What Behaviors Should We Measure and How Should We Measure Them?" at the workshop, "Early Nutrition and Later Achievement," sponsored by the International Children's Center in Paris.

Barrett published:
-- "Nutrition and Social Behavior" in

(Continued on page 8.)

(Continued from page 7.)

Theory and Research in Behavioral Pediatrics, Vol. III.

-- "Effects of Unanticipated Cesarean Section on Mothers, Infants and Their Interaction in the First Month of Life" in Journal of Developmental and Behavioral Pediatrics.

-- "Behavior as an Outcome in Nutrition Research" in Nutrition Reviews.

G.F. Elrod (Vstg Asst Prof) presented "Work Experience for the Rural, Special Needs Student: A Pipe Dream or a Possibility?" at Exposition '86: Innovative Programs, Research and Technologies in Rural Education in Washington.

ENGLISH

R.J. Calhoun (Alumni Prof) participated in "Randall Jarrell: An Interdisciplinary Symposium" sponsored by the Institute for Southern Studies at the University of South Carolina.

J. Idol (Prof) published "Wolfe in Richmond: A Great Story That Was Never Told" and "Wolfe's Old Stockade" in The Thomas Wolfe Review.

R. Rollin (Lemon Prof) organized the session, "Controversies in Culture Theory," for the 1986 Popular Culture Association in the South meeting and read at the meeting "Towards a Unified Field Theory of Culture."

C.H. Sawyer (Prof) presented "Men Who Wear Skirts, Women Who Wear Trousers: From Achilles

to Tootsie" at the Popular Culture Association meeting. She also chaired a session devoted to William Faulkner.

ENVIRONMENTAL SYSTEMS ENGINEERING

A.R. Abernathy (Prof) presented "Full-Scale Evaluation of One- and Six-Micrometer Microscreen Media for Removing Algal Solids," written with K. Rhoads (Grad Res Asst), at the 59th Annual Conference of the Water Pollution Control Federation in Los Angeles.

EXTENSION SERVICE

Two Extension specialists, P.M. Horton (Assoc Prof, entomology) and F. Wolak (Assoc Prof, agricultural engineering), received a \$27,500 grant from the U.S. Environmental Protection Agency to develop calibration kits for use in classroom training of pesticide applicators. The grant was one of seven awarded nationally by the EPA through the Extension Service/U.S. Department of Agriculture.

HISTORY

R.M. Golden (Prof) chaired a session, "Seventeenth-Century Historians: Richelieu and Racine," at the annual convention of the Southeast American Society for French 17th-Century Studies in Charleston.

Golden also has been appointed to the Executive Committee of the society.

D. Paz (Assoc Prof) was elected a Fellow of the Royal Historical Society.

A. Schaffer (Prof) reviewed Donald J.

Lisio's Hoover, Blacks, and Lily-Whites: A Study of Southern Strategies in The North Carolina Historical Review.

INDUSTRIAL EDUCATION

A.F. Newton (Prof and Head) presented "An Update on Industrial Technology Education in South Carolina" at the Southeastern Technology Education Conference in Charlotte.

D.G. Tesolowski (Assoc Prof) published "Technology Curricula and Instruction in the Information Age" in The Technology Teacher.

MANAGEMENT

R.L. LaForge (Prof) and V.L. Sturr (Former Grad Stu) published "MRP Practices in a Random Sample of Manufacturing Firms" in Production and Inventory Management.

PARKS, RECREATION AND TOURISM MANAGEMENT

M. Uysal (Asst Prof) published:

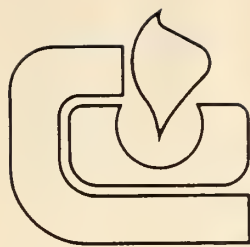
-- "Tourism Demand Estimation Models" in Tourism Annual -- 1985.

-- "Marketing for Tourism: A Growing Field" in Parks and Recreation.

UNDERGRADUATE STUDIES

J.L. Stevenson (Prof, PRMT; Dir, Honors Program) led a workshop, "Leadership and Communication Skills," for Converse College's leadership training program for freshmen.

The Newsletter will not be published Nov. 5. The deadline for submitting information for the Nov. 12 issue has been moved to noon, Oct. 30.



Events

INFORMATION FOR THE FACULTY AND STAFF OF CLEMSON UNIVERSITY

This calendar is prepared up to a month in advance. Please send in writing to the MASTER CALENDAR EDITOR, 103 Fike Center, any campus event that should be listed. You may also want to call 656-4993 to check the UNIVERSITY MASTER CALENDAR for possible scheduling conflicts. (Call the number listed in each entry for more information.)

October 31-November 7

CONFERENCES, LECTURES AND MEETINGS

OCT 27 1986

October

- 30-31 Conference: Southeastern Peach Workers. Sponsored by horticulture department (656-3403), Ramada Inn.
- 31- Meeting: Second Annual Scientific Session of the
Nov. 1 Academy of Surgical Research. Sponsored by Bioengineering Alliance and Continuing Education (656-5563), 9 a.m.-5 p.m., Ramada Inn, \$135.

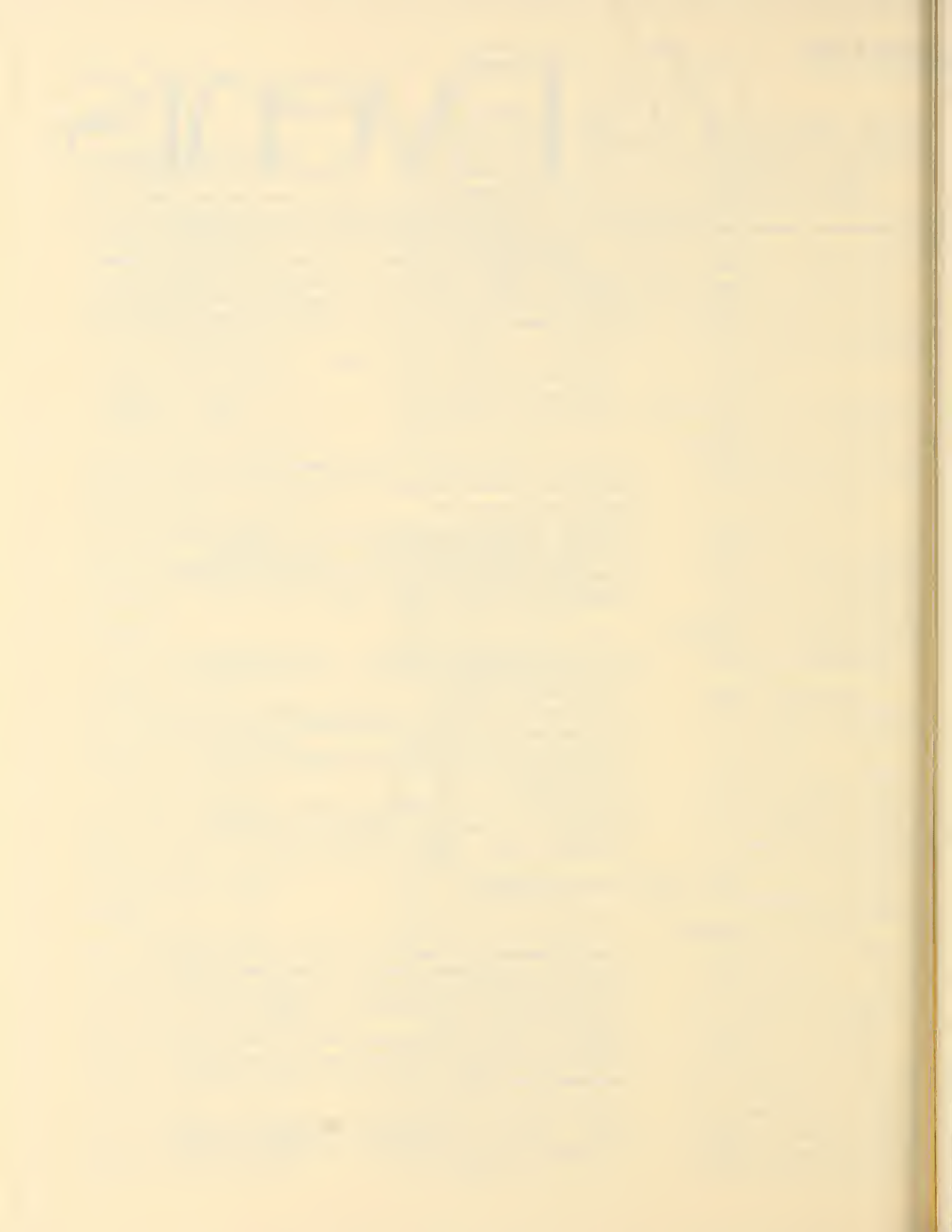
November

- 5 New Faculty Luncheon Meeting. Noon, Palmetto Ballroom (656-3022).
- 5-6 Conference: Upholstery. Sponsored by Professional Development (656-2200), Ramada Inn.
- 7 University Honors Committee Meeting. 2 p.m., 102D Tillman.
- 7 Workshops: Chrysler-Plymouth Career Search. Sponsored by Cooperative Education (656-2152), noon and 2 p.m., Senate Chambers.

ART, MOVIES AND PERFORMANCES

November

- 4-8 Clemson Players Production: "Evening of Original One-Acts" by Leslie A. Wade, 8 p.m., Daniel Hall Auditorium (3:30 matinee on the 6th) (656-3043). Students free, faculty/staff \$1, public \$2.
- 5 Film: "In Pursuit of Sensitivity." Sponsored by College of Architecture and Japanese Consulate General (656-3081), 3:30-4 p.m., 100 Lee Hall, free.
- 6-8 Movie: "Gung Ho." Sponsored by University Union (656-2461), 7 and 9:15 p.m., Y-Theatre, \$1.50.



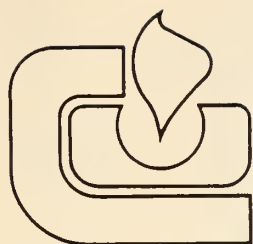
OTHER EVENTS

October

- 30-31 Preregistration.
- 31-Nov. 2 Women's Tennis: Clemson Tournament, Hoke A. Sloan Tennis Center (656-2101).
- 31-Nov. 4 Trip to Disney World/Epcot Center. Sponsored by University Union (656-2461).
- Through Exhibit: "The Cookbook as a Social Document."
Nov. 23 Cooper Library lobby (656-3027); 7:45 a.m.-1 a.m. Monday-Thursday, 7:45 a.m.-11 p.m. Friday, 8 a.m.-6 p.m. Saturday, and 1 p.m.-1 a.m. Sunday.

November

- 1 Men's and Women's Cross Country: ACC Championships (656-2101).
- 1-4 Fall Break trip to Washington D.C. Sponsored by University Union (656-2461), \$160.
- 2 Soccer: Virginia, 2 p.m., Riggs Field (656-2101).
- 2 "Straight Talk" Television Program. Sponsored by University Relations (656-3859), 10 a.m. and 10:30 p.m., WAXA-TV (Channel 40).
- 3-4 Fall Break. University closed.
- 3-8 ROTC Week. Sponsored by Army and Air Force ROTC departments (656-3107).
- 4-7 Exhibits: Model of U.S. Air Force's F-15 Eagle and display of "biomedical spinoffs." Sponsored by Air Force ROTC (656-3254), Cooper Library, free.
- 4-7 Exhibit: U.S. Air Force logistical products. Sponsored by Air Force ROTC (656-3254), University Union Loggia, free.
- 5 Soccer: Mercer, 7:30 p.m., Riggs Field (656-2101).
- 5-7 Preregistration.
- 5-24 Exhibit: "North/South Fiber Competition." Sponsored by College of Architecture (656-3081); 9 a.m.-4:30 p.m. weekdays, 2-5 p.m. Sundays; Rudolph E. Lee Gallery, Lee Hall; free.
- 6 Short Course: Body Massage - Session II. Sponsored by University Union (656-2461), 7-10 p.m., \$15.
- Continuous YMCA-sponsored classes in women's and men's fitness, youth fitness, aerobics, exercise, Jazzercise, social dancing, Middle Eastern dance, swimming, gymnastics, lifesaving, and after-school day-care programs (656-2460).



OCT 31 1986

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This calendar is prepared up to a month in advance. Please send in writing to the MASTER CALENDAR EDITOR, Trustee House, any campus event that should be listed. You also may call 656-3862 to check the UNIVERSITY MASTER CALENDAR for possible scheduling conflicts. (Call the number listed in each entry for more information.)

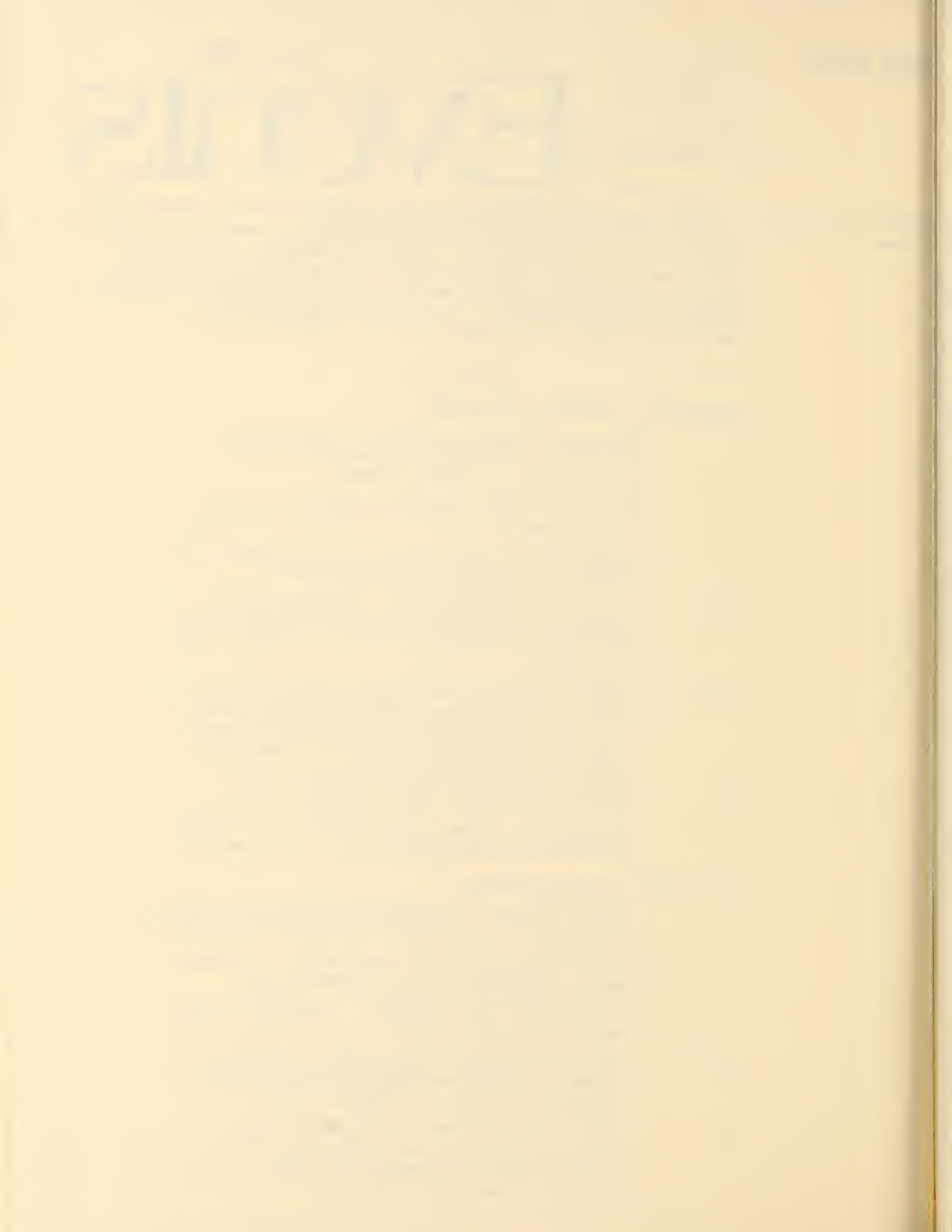
November 7-14

CONFERENCES, LECTURES AND MEETINGS

- 7 Workshops: Chrysler-Plymouth Career Search. Sponsored by Placement Office (656-2152), noon and 2 p.m., Senate Chambers.
- 7 University Honors Committee meeting. 2 p.m., 102D Tillman.
- 10 Meeting: Professional Secretaries International (656-2249), 7 p.m., Shoney's restaurant.
- 10-11 Symposium: Representation in Architecture. Sponsored by College of Architecture (656-3081), 1:30 and 8 p.m. Monday, 9:30 a.m. Tuesday, Lee Hall, free.
- 11-12 Clemson Turfgrass Conference. Sponsored by Extension Service and horticulture department in cooperation with Carolina Golf Course Superintendents' Association (656-3403), Ramada Inn.
- 12 Women in Higher Education meeting. Speaker: attorney Pam Deal. Noon, Golden Corral.
- 13-14 Meeting: S.C. Entomological Society. Sponsored by entomology department (656-3113), Ramada Inn.

ART, MOVIES AND PERFORMANCES

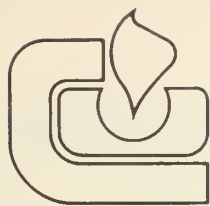
- 9 Movie: "Witness." Sponsored by University Union (656-2461), 7 & 9:15 p.m., Y-Theatre, free with I.D.
- 10 Movie: "Quicksilver." Sponsored by University Union (656-2461), 8 p.m., Y-Theatre, \$1.
- 11 Entertainment: Joel Madison. Sponsored by University Union (656-2461), 9 p.m., Edgar's, \$1.
- 12 Movie: "A Sunday in the Country." Sponsored by University Union and College of Liberal Arts (656-2461), 7:30 p.m., Y-Theatre, \$2.
- 12 Film: "An Invitation to Traditional Music." Sponsored by College of Architecture and Japanese Consulate General (656-3081), 3:30-4 p.m., 100 Lee Hall, free.



- 12 Concert Series: Chestnut Brass Company.
Sponsored by music department (656-3043),
8 p.m., Tillman Hall Auditorium, students free,
\$2 children, \$6 adults.
- 13-14 Band: Killer Whales. Sponsored by University
Union (656-2461), 9 p.m., Edgar's.
- 13-15 Movie: "White Nights." Sponsored by University
Union (656-2461), 7 and 9:30 p.m., Y-Theatre, \$1.50.

OTHER EVENTS

- 8 Young Alumni Associates tailgate party.
(656-2345.) Barbeque lunch will be served.
Location to be announced, \$4.
- 8 Football: Hall of Fame Day. North Carolina,
1 p.m., Death Valley (656-2101).
- 8 Golden Knights parachute team performance. Pre-
game show. Sponsored by Army ROTC (656-3107),
Death Valley.
- 8 Volleyball: Maryland, 10 a.m., Jervey Athletic
Center (656-2101).
- 9 Soccer: Maryland, 2 p.m., Riggs Field (656-2101).
- 9 Race: Run in the Sun. Sponsored by University
Union (656-2461), 1 p.m., meet in loggia, free.
- 10 Mr. Greek Kappa Delta. Sponsored by Kappa Delta
sorority (656-6253), 8 p.m., Tillman Hall
Auditorium.
- 10-20 Short Course: CPR. Sponsored by University Union
(656-2461), Mondays and Thursdays 7-9 p.m., \$20.
- 11 Volleyball: UNC-Charlotte, 7 p.m., Jervey
Athletic Center (656-2101).
- 11-13 Short Course: First Aid. Sponsored by
University Union (656-2461), 7-9:30 p.m., \$20.
- 11-
Dec 16 Diabetic Teaching Class. Sponsored by College
of Nursing (656-3076), 2-4 p.m. Tuesdays.
- 12 Men's Basketball: Athletes in Action, 7:30 p.m.,
Littlejohn Coliseum (656-2101).
- 14 Men's Swimming: Georgia Tech, 4:30 p.m., Fike
Recreation Center (656-2101).
- 14-16 Road trip to Maryland football game. Sponsored
by University Union (656-2461), \$99.
- Continuous YMCA-sponsored classes in women's and men's
fitness, youth fitness, aerobics, exercise,
Jazzercise, social dancing, Middle Eastern
dance, swimming, gymnastics, lifesaving, and
after-school day-care programs (656-2460).



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Newsletter

Nov. 12, 1986
Vol 26 No 12

INFORMATION FOR THE FACULTY AND STAFF OF CLEMSON UNIVERSITY

FERGUSON JOINS CLEMSON IN ANNOUNCING ESTABLISHMENT OF DROPOUT CENTER

The National Dropout Prevention Center, founded and co-chaired by South Carolina native Esther Ferguson, has committed to raise funds to help Clemson establish a Dropout Prevention Center, Ferguson announced here Oct. 28.

Headquartered in the College of Education, the center will be a clearinghouse for research and information on the dropout problem.

It also will help coordinate national efforts to cut the dropout rate and reduce its debilitating effects on the U.S. economy.

A proposal to establish the center has passed committee review and is pending before the state Commission on Higher Education.

Almost 1 million young people leave school each year, a national dropout rate of 25 percent, Ferguson said.

"I don't think this country is ready to give up on every fourth child," she said.

"A high school diploma is the required passport to enter the world of employment," said Gov. Mark Riley, who called the establishment of the center a major breakthrough for South Carolina and the nation."

Riley said the changing social and economic climates in the state and nation makes it imperative that students finish high school.

President Max Lennon said South Carolina's high school dropout rate is fifth highest in the nation in 1985.

"As a land-grant institution, we can't turn our backs. We believe in our young people," he said.

(Continued on page 2.)



Fowler



Smith



Rogers

DEVELOPMENT, STUDENT AFFAIRS ANNOUNCE PERSONNEL CHANGES

Three staff members in the Development and Student Affairs offices have accepted new management responsibilities.

Donald Fowler has been promoted to assistant vice president for development; Ann Smith has joined the Development Office as director of annual giving, and Almeda Rogers has been named assistant vice president for student affairs.

Fowler, who previously directed annual giving, now is responsible for scholarship development and corporate relations and fund raising.

A 1960 Clemson graduate, Fowler joined the Development Office in 1980.

Smith has moved from the sports promotions staff to manage fund-raising efforts for the Clemson Loyalty Fund.

She graduated from Clemson in 1982 with a bachelor's degree and in 1985 with a master's, both in management, and joined Clemson's sports promotions staff in 1983.

As assistant vice president for student affairs, Rogers will oversee the areas of student life, university housing, student counseling and career planning, career services and cooperative education, intramural sports, student health service, the university union and bands and choral music.

Rogers, who earned her bachelor's and master's degrees from Clemson, has worked with Clemson's housing department since 1975 and has served as director of housing for the past five years.

(Continued from page 1.)

"Educated persons make wise choices."

Lennon serves on the board of the national Dropout Prevention Fund along with Ferguson and 23 others.

The Fund's goals are to focus public attention on the dropout problem through a national media awareness campaign and to support the dropout prevention programs in New York City and Clemson.

Board members hope to raise \$15 million over the next five years to support these efforts. Money will be raised through private and corporate donations and foundation and governmental grants.

Clemson will not request state funds for the project, said the center's acting director and education Professor Dick Hamby.

Hamby said the Clemson group already is compiling information on dropout research and on successful efforts to encourage students to stay in school.

One of the center's first projects will be to host a national conference on the problem in the spring of 1987.

"There are many, many innovative projects going on around the country," Hamby said. "We hope to bring about an exchange of information on what works and what doesn't, and why."

Other projects being considered include an electronic data base of information and bibliographies on dropout research, and a toll-free telephone number which parents, schools and community groups could call for information.

"We want to encourage a people network as well as a computer network, because it's a people problem," Hamby said.

"The only way to solve it is to make people aware, get them concerned, and help them figure out how they can help themselves and their communities."

Lennon said the dropout issue is being addressed as a part of the "Quality of Life" initiative under Clemson's Second Century Plan.

ENDOWMENT WILL PROVIDE SCHOLARSHIPS AND AWARD FOR EXCELLENCE IN ADVISING

A new endowment will provide a \$2,000 scholarship for juniors and seniors and the first ever cash award for advisers of Clemson student

The endowment honors retired sociology Professor Frank A. Burtner, who was a teacher and adviser at Clemson for more than four decades.

Income from the endowment annually will fund a scholarship awarded for outstanding academic and leadership performance and a prize of up to \$1,000 for a faculty or staff member with a record of excellence in advising students or student organizations.

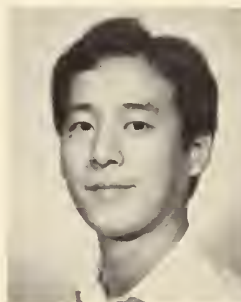
The Burtner Scholarship will rank among Clemson's most prestigious academic grants, and the Burtner Award for Excellence in Advising Students will be the first of its kind at the University.

"During his 45 years at Clemson, Dr. Burtner inspired and counseled literally hundreds of students, inside and outside the classroom," said Gerald W. Caughman of Chester, a 1965 Clemson graduate and chairman of the drive that raised more than \$50,000 to establish the Burtner Endowment.

"This endowment not only shows the deep and widespread appreciation that we feel for Dr. Burtner, but it also will help to perpetuate the ideals and example of selfless service that he so admirably exhibited at Clemson," he said.

Burtner joined the Clemson faculty in 1939 as an instructor in economics and sociology. He retired in 1984 as a full professor.

During his tenure, he was adviser to several student organizations and to students planning to go to medical and dental schools. In 1970 he took on additional duties as director of fraternity affairs.



The Clemson University Newsletter is published for Young J. Han, assistant professor of agricultural engineering, and for all members of the faculty and staff by the Division of University Relations.

University Newsletter Editor .. Deborah M. Slick
Acting Director, News Services .. Catherine Sam

We welcome your comments and suggestions. Call us at 656-4989 or write us at 103 Fike Center. DEADLINE is Nov. 19, noon, for Nov. 26 issue.

BLOOD DRIVE ORGANIZERS HOPE TO GIVE MORE THAN USC AGAIN THIS YEAR

Students are preparing to take their counterparts from Columbia in the second blood drive

competition between Clemson and the University of South Carolina.

On the line are a \$1,000 scholarship donation, a trophy and, for Clemson, the chance to go undefeated in the competition that organizers hope to make an annual event.

Clemson collected 747 pints of blood in November 1985. USC collected 714 pints.

This year's drive at Clemson will be Nov. 18, 19 and 20, from 11 a.m. to 7 p.m. each day, in the Elmetto Ballroom.

The blood taken will benefit patients in Shriners hospitals for burned and crippled children, including the hospital in Greenville, and Clemson students, faculty, staff and alumni.

The blood drive's sponsors are Alpha Phi Omega National Service Fraternity, the Blue Ridge Shrine Club and the Foothills Blood Center.

Clemson faculty and staff and residents of local communities are encouraged to participate, said blood drive coordinator Steve Burnett, a member of Alpha Phi Omega.

RESEARCH GRANT APPLICATIONS DUE BY NOV. 14

Applications for University Research Grant Committee funds are due in the Office of University Research by Nov. 14.

The committee accepts applications from faculty holding tenure/tenure track positions with titles of assistant professor, associate professor or professor and the equivalent library faculty ranks.

For more information or for application forms and

instructions, contact the Office of University Research, E-102 Martin, 656-2375.



Mary Barber (right), assistant professor of nursing, checks Sue Isbell's blood pressure during the annual Nursing Center open house Oct. 21. Isbell is a word processing operator in the computer science department.

COLLEGE OF NURSING PROVIDES COMPREHENSIVE WELLNESS SERVICES

The Nursing Center, located on the ground floor of the College of Nursing, provides the University community a variety of wellness services.

The center offers:

- complete physical exams.
 - screenings for high blood pressure, diabetes, obesity, scoliosis, tuberculosis, poor vision and hearing, colorectal cancer and anemia.
 - educational programs on health topics such as diabetes, childbirth preparation, first aid, nutrition, total wellness and smoking cessation.
 - aerobic exercise and weight control groups.
 - health counseling.
 - Alzheimer's Disease support group.
 - immunization services.
 - computerized body composition (body fat) analysis.
 - computerized health risk appraisals during all pre-retirement seminars and for other groups and individuals.
- Services are provided by College of Nursing faculty who are registered nurses and by nursing students who are under the supervision of skilled nursing faculty.

Charges are based on the type of service provided. Some services are free.

For an appointment or more information, call the center at 656-3076.

PLANNING FOR NEW B.A. PROGRAM UNDER WAY

The director of the language and international trade program at Eastern Michigan University will visit Clemson next week to discuss the development of a similar program here.

Ray Schaub will meet Nov. 17 with deans, department heads and faculty from the colleges of Liberal Arts, Commerce and Industry, Agricultural Sciences and Forest and Recreation Resources to talk about the new B.A. program in language and international trade.

The new program will combine the technical elements of international business with the humanistic aspects of

foreign cultures.

Schaub also will attend a joint meeting of the International Business, French, German and Spanish clubs Nov. 17 to discuss careers in international trade.

The meeting will be at 7 p.m. in 108 Strode Tower.

On Nov. 18, Schaub and international relations specialists from Daniel International and UNC-Charlotte will participate in the Communication and International Trade Symposium from 1:30 to 3 p.m. in 108 Strode Tower.

Faculty and administrators are welcome to attend the meetings and the symposium.

For more information, call Pat Wannamaker, program director, at 656-2626

BEGINNING BACKPACKERS SHOULD START SLOW, PROFESSOR SAYS

by John Padgett

If you enjoy heading for the woods on weekends to "get away from it all," autumn and winter backpacking may be for you.

Gordon Howard, professor of parks, recreation and tourism management, says a number of good backpacking trails are located nearby.

Most follow the Chattooga River, he said.

The Chattooga Trail starts at the Highway 28 bridge and joins the Foothills Trail at Big Bend. The Foothills Trail, meanwhile, crosses the Upstate between Oconee and Table Rock State Parks. The Bartram Trail follows the Chattooga on the Georgia side.

There also are numerous trails in Pisgah and Nantahala National Forests in North Carolina and in the Great Smoky Mountains National Park.

When you're planning a backpacking trip, call ahead to check out an area. Phone numbers can be found in brochures published by the national park and forest services and in guidebooks.

"Many areas require permits for overnight use," Howard said. "Other places require permits for winter camping."

The Outing Club, open to faculty and staff, rents equipment to its members. It meets every other Wednesday at 8 p.m. in 134 Lehotsky.

The recommended minimum number of people going on a backpacking trip is two,

so that if one person gets hurt, the other can go for help.

"However, I've gone with as many as 30," he said. "The ideal number of people for me is four."

Howard recommends using a pack with a frame and a hip belt so the bulk of the pack's weight is off the shoulders.

For weekend trips, food can be bought at a supermarket with some careful planning, but longer trips may require special freeze-dried foods to cut down on weight.

Howard recommends taking along a small backpacking stove because campfires are prohibited in many areas.

"A fairly inexpensive butane stove costs about \$20," he said. "This will work until the weather gets cold, at which time you'll need a white gas or propane stove."

Howard said it is best to dress in layers for a backpacking trip. "That way, if you get cold or hot you can add a layer or take off a layer," he said.

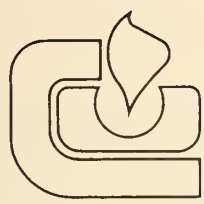
"Tennis shoes are fine for backpacking if they're good shoes," he said. "My complaint about them is they don't keep your feet as warm as good leather boots."

For beginners, Howard recommends taking it easy the first time out.

"Keep the pack's weight down -- about 25 pounds for a woman, 30 for a man," he said.

Cold-weather backpacking requires eating a lot of high-calorie food to stay warm, carrying extra clothing such as a warm hat and scarf and taking shorter hikes.

"Get a taste for it first," Howard said. "Don't try to do it all at once."



Newsletter

NOV 19 1986

Nov. 19, 1986
Vol 26 No 13

INFORMATION FOR THE FACULTY AND STAFF OF CLEMSON UNIVERSITY

COLLEGE STUDENT ENROLLMENT TOPS 13,000 THIS SEMESTER FOR FIRST TIME

Total student enrollment this fall is 13,062, clearing the 13,000 mark for the first time.

Registrar Stan Smith said on-campus enrollment is 12,152 -- 10,280 undergraduate and 1,872 graduate students -- 26 more students than in fall 1985.

57.5 percent of the student body is male and 42.5 percent is female.

Undergraduate and graduate enrollment for off-campus programs such as courses taught by Clemson faculty members at Greenville TEC and Furman and special institutes is 910.

Minority enrollment is up 9 percent, from 762 in the fall of 1985 to 831 this semester, said Frank Gentry, executive assistant to the dean of admissions and registration.

Gentry said the minority category includes blacks, American Indians, Native Alaskans, Hispanics, Asians and Pacific islanders in both on- and off-campus programs.

Engineering curricula continues to attract the largest group of students. Fall enrollment in the College of Engineering is 3,369.

Business- and textile-related majors in the College of Commerce and Industry claim the second largest number of students, 2,681.

The College of Sciences has 1,533 students; College of Education, 1,423; College of Liberal Arts, 993; College of Agricultural Sciences, 649; College of Architecture, 546; College of Forest and Recreation Resources, 500; and College of Nursing, 363.

GRADUATE SCHOOL SETS ENROLLMENT RECORD

More people than ever are seeking advanced degrees this fall at Clemson, where Graduate School enrollment has increased more than 10 percent since 1985.

Final enrollment statistics show that 2,677 students are taking graduate courses on- and off-campus, compared to 2,451 enrolled in fall 1985.

The college with the largest increase is Education, which accounts for 1,015 of the graduate students.

Graduate School Associate Dean Farrell Brown credits the S.C. Education Improvement Act with providing incentives to teachers to enroll in graduate school, but he said other departments also are working harder to recruit master's and doctorate seekers.

"Most of the research-oriented programs in engineering and the sciences also are experiencing increases," Brown said.

Successful efforts to secure financial aid for top graduate students from non-state sources also contributed to the record enrollment. Brown said graduate research assistantships to Clemson students from private and federal sources are at an all-time high.

Fall enrollment includes 642 non-degree, 770 professional master's, 819 M.A. or M.S., 28 education specialist, and 418 doctoral students.

The College of Agricultural Sciences has 249 graduate students; Architecture, 115; Engineering, 432; Commerce and Industry, 314; Liberal Arts, 55; Nursing, 54; Sciences, 382; and Forest and Recreation Resources, 61.

Clemson's annual blood drive continues today and tomorrow (Nov. 19 and 20) from 11 a.m. to 7 p.m. in the Palmetto Ballroom.

At the end of the drive, the University department that can boast of having donated the most pints of blood will win a coffee break catered by ARA, complete with coffee, juice and pastries.

PRESIDENT SETS UP CHILD CARE COMMITTEE

An ad hoc committee representing faculty, staff and student interests has been appointed by President Max Lennon to study the feasibility of establishing an on-campus child care facility.

Pat Padgett, administrative assistant in the College of Nursing and chairman of the Commission on Classified Staff Affairs, is chairman of the committee.

The concept of on-campus child care was first explored here in 1982, when a survey of employees and graduate students showed support for the idea of a self-supporting facility.

At the committee's first meeting, members were assigned specific areas to research and prepare reports on, including expected impact on the community and private business, academic program interest, regulatory issues, publicity and marketing, potential employee/student benefits, space availability and funding.

"There are a number of areas to be explored, including a drop-in service for sick children, an after-school program and full-time day care," Padgett said.

She said the committee would appreciate input from the University community, and added that comments could be directed to committee member Cathy Sams, acting director of News Services.

Other committee members are Deborah Brown, graduate student; Barbara Dickson-Parnell, assistant professor of psychology; Deborah Ervin, admissions counselor; Lillian Hart, associate professor of elementary and secondary education; Francis McGuire, associate professor of parks, recreation and tourism management; Emily Wiggins, associate professor, Extension home economics; Ronald Herrin, director of payroll and employment benefits; and Richard Simmons, assistant personnel director.

ENERGY CONSERVATION EFFORTS PAYING OFF AT CLEMSON

Since utilities costs began skyrocketing in the early 1970s and the nation began its focus on energy conservation, Clemson University has made every feasible effort -- down to the last lightbulb -- to keep its utilities bill down.

"Clemson has been a leader in energy conservation," said John Geer, district manager for Duke Power Co. "The University's efforts began even before we started promoting energy conservation."

James Hanna, Physical Plant engineer and superintendent of utilities, said the University really launched its conservation program in the 1960s, but only began keeping records on its success in the early 70s.

From 1972 to 1985, utilities costs per square foot on campus (for electricity, steam and potable water) increased a whopping 309 percent; square footage increased 41.79 percent; and enrollment increased 41.26 percent.

Yet the amount the University paid Duke Power each year increased only 322.63 percent.

"That's an impressive comparison," said Hanna, "considering that during the past four years we have experienced a large growth in computer facilities which require additional electrical power and air conditioning, and which seem to run 24 hours a day.

"The cost increase mostly reflects inflation. Our efforts to conserve energy have kept the costs way down."

University engineering associate and energy officer Jack Stanley said that, for the past five years, Clemson has saved about \$1,368,196 each year by installing energy-efficient lighting and

(Continued on page 3)



The Clemson University Newsletter is published for Polly Laffitte, the new assistant manager of the Visitors Center, and for all members of the faculty and staff by the Division of University Relations.

University Newsletter Editor .. Deborah M. Slice
Acting Director, News Services .. Catherine Sams

We welcome your comments and suggestions. Call us at 656-4989 or write us at 103 Fike Center. DEADLINE is Nov. 24, noon, for Dec. 3 issue.

STROM THURMOND INSTITUTE RECEIVES THIRD WATER RESEARCH GRANT

The Strom Thurmond Institute has received its third major grant in three years for statewide water policy research.

A grant of \$250,000 from the S.C. Water Resources Commission will fund the Institute's efforts to survey and provide solutions for South Carolina's ever-growing, complex water systems.

"This year's grant will go toward designing computer models to study interbasin transfers of water from one area to another and toward the development of improved financial management and accountability for those same water systems," said James Hite, alumni professor of agricultural economics and coordinator of the program.

Hite said the Institute's research to date has clarified many of the state's water problems and has provided potential solutions and pricing models to determine the cost of water.

"Plenty of water will be available to the state in coming years, but cost and transportation will prove to be the biggest stumbling blocks," Hite said.

The study was begun by the Thurmond Institute in July 1984.

INDUSTRIAL EDUCATION PROGRAM CHANGES NAME

The department of industrial education has changed the name of one of its graduate curricula.

"The 'Industry Option' program now is called 'Human Resource Development' to more accurately reflect the terminology used in industry," said department head Alfred Newton.

The program, which will offer evening classes, is well-suited for community college personnel, volunteer administrators and directors of non-profit organizations, especially those unable to attend day classes, said Newton.

(Continued from page 2.)

other equipment across campus and by promoting conservation.

He said the University has focused on making "quick-fix" modifications to existing buildings and including energy-efficient features in the design of new and renovated buildings.

Modifications have included the conversion of each building's exit signs from incandescent to fluorescent lighting.

When the savings from reducing the electricity and labor required to maintain each light are multiplied by the hundreds of exit lights burning 24 hours a day on campus, the savings add up to \$52,000 a year, said Stanley.

The Physical Plant also has converted exterior lighting from mercury to high-pressure sodium lamps, increasing light output by 25 percent and saving about \$11,800 a year in energy costs.

"These lamps also have helped to improve campus security," Hanna said. "Movement at night is more easily perceived under these lights, which give off a yellow glow."

"In fact, because these new lamps require so much less energy to operate, we were able to turn on several outdoor lamps that had been turned off for energy conservation reasons."

Other conservation efforts have included using low wattage interior lamps and energy-saving ballasts in fluorescent fixtures, and adding economizer cycles to air-handling systems.

"Also, architects and engineers are encouraged to incorporate energy conservation methods when designing for renovations or new construction of campus buildings," Hanna said.

Stanley said the University hopes to update its computer-operated energy management system, which automatically monitors and resets thermostats in certain campus buildings.

"It's an expensive system, but when installed, it would provide considerable savings in energy and labor," he said.

Stanley and Hanna said Clemson employees can help conserve energy and keep the monthly utilities bill down.

Turning off lights when you leave a room and reducing the brightness on your computer screen before you go home each day may not seem like a big contribution, but it all adds up to big savings when everyone participates.

"Maintain the awareness that our resources are finite," Hanna said, "and use them in the best interest of everyone."

CHEMIST AWARDED SHIP TIME FOR ENVIRONMENTAL RESEARCH

Ten days' use of a floating laboratory equipped for oceanic experiments was awarded to analytical chemist Tom Tissue, who is using the time to learn more about the Carolina coastal environment.

Tissue, an associate professor of chemistry, has had free reign of the National Oceanic and Atmospheric Administration's research vessel "Ferrel" since Nov. 10.

The research time, valued at more than \$8,000 per day, was awarded through the National Sea Grant college program, and the S.C. Sea Grant Consortium added a \$5,000 grant to cover transportation and other related expenses.

This is Tissue's second NOAA ship-time award in two years.

His research involves interactions between ocean-floor sediments and the water above them, particularly the rate at which materials move from one to the other.

The ocean uses sediments to cleanse pollutants from water, Tissue said, and understanding how the process works can help scientists protect the marine environment.

Tissue is working at Frying Pan Shoals off of Cape Fear, N.C., and in Winyah Bay near Georgetown.

"These are both prime fishery areas, so environmental issues there can impact economic development," he said.



Chemist Tom Tissue

For example, there is an economic interest in the potential for offshore mining of phosphate-containing rocks used in agricultural fertilizers. Tissue said research such as his could help officials gauge any environmental risks or benefits of releasing phosphorus into water.

Working with Tissue on the project is a graduate student Alan Bailey, who worked on developing equipment for the expedition during an appointment at Argonne National Laboratory, and NOAA scientist Nathan Hawley.



WALTER COX (right), vice president for institutional advancement and former Clemson cadet, has been named the first "Honorary Ranger" by the Clemson Rangers, a division of the Army ROTC Fightin' Tiger Battalion. Here, he receives a plaque from cadet Major Bill Rock.

"We also are proud to announce that the 'Walter T. Cox Award' has been established to recognize each year's most outstanding Ranger," said Lt. Col. James Griffin.

"Since his days as a Clemson cadet and throughout his outstanding career at Clemson, Dean Cox always has maintained close ties with the cadet corps," he said.

"Since he's really been 'one of us' for all these years, we decided to make it official."

DEPARTMENTAL NOTES

ARCHITECTURE

B.C. Nocks (Assoc Prof) presented "Micro-Computer Use in Health Planning Agencies" at the annual conference of the Associated Collegiate Schools of Planning in Milwaukee.

BIOLOGICAL SCIENCES

D.E. Kyle (Former Grad Stu) and G.P. Noblet (Prof) published "Seasonal Distribution of Permotolerant Free-Living Amoebae. I. Willard's Pond" in The Journal of Protozoology.

CHEMICAL ENGINEERING

J.N. Beard (Prof) presented an invited lecture, "The Optimization and Control of Textile Tenter Frame Driers," at the Milliken Co. Finishers' Meeting in Greensboro. Beard also chaired a session on automation and control of fiber processes at the Fiber Producer Conference in Greenville.

S.S. Melsheimer (Prof and Head) represented Emerson at the Council on Chemical Research annual meeting in Chicago.

CHEMISTRY

K. Dill (Assoc Prof), L. Carter (Grad Stu) and A.R. Katritzky (Univ. of Florida) published "Structural Elucidation of the reductive Methylation By-product of Ecophorin AM" in the International Journal of Biological Macromolecules.

J.D. Peterson (Prof and Assoc Dean) gave an invited lecture, "Novel Reductive Metalloorganic

Polymers," at the 1986 Fiber Producer Conference in Greenville.

ENGLISH

H.B. Bryant (Prof) read "Inscaping the Oracle: The Influence of John Ruskin on the Aesthetic Theory of Gerard Manley Hopkins" at the Carolinas Symposium on British Studies at Appalachian State University.

B.K. Duffy (Assoc Prof, Speech) is editor/adviser for a series of 55 books on American orators to be published by Greenwood Press.

Duffy also published "Robert P. Newman: American Don" in Communication Quarterly and "The Speech Professional in an English Department" in ACA Bulletin.

R. Leeman (Instr, Speech) published "The Rhetoric of the Chicago Defender and the Black Migration North" in Carolinas Speech Communication Annual and presented "Campbell vs. Daniel: Local Politics, National Rhetoric" at the Carolinas Speech Communication convention.

F. Shilstone (Assoc Prof) reviewed Peter L. Thorslev Jr.'s Romantic Contraries: Freedom Versus Destiny in Southern Humanities Review.

D. Tillinghast (Assoc Prof) published "Mermaids and Crystal Chandeliers" in New Poets Review and gave a public fiction reading at the O'Neill Literary House in Chestertown, Md.

E.P. Willey (Assoc Prof) published "Grade

School Yearbook Revisited" in New York Quarterly.

ENTOMOLOGY

T.M. Brown (Assoc Prof) and G.T. Payne (Grad Res Asst) presented "Synergists for Permethrin in Resistant Heliothis virescens" to the International Union of Pure and Applied Chemistry's Sixth Congress of Pesticide Chemistry in Ottawa, Ontario, Canada.

D.W. Byron (Former Grad Res Asst) and S.B. Hays (Prof and Head) published "The Occurrence and Significance of Multiple Mound Utilization by Colonies of the Red Imported Fire Ant" in Journal of Economic Entomology.

J.D. Culin (Asst Prof) and D.R. Alverson (Assoc Prof) published "A Technique to Mark Adult Heliothis zea Using Rubidium Chloride-spiked Artificial Nectar Sources" in Journal of Agricultural Entomology.

W.R. English (Grad Res Asst) and S.W. Hamilton (Grad Asst) published "The Larvae of Ochrotrichia arizonica With Notes on Distribution and Geographic Variation" in Journal of the Kansas Entomological Society.

Hamilton published "A New Species of Polycentropus from Cuba" in Proceedings of the Entomological Society of Washington.

J.R. Grothusen (Former Res Assoc/Asst Prof), P.K. Bryson (Res Spec), J.K. Zimmerman (Prof, Biology) and T.M. Brown

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(Assoc Prof) published "Hydrolysis of 4-Nitrophenyl Organophosphinates by Arylester Hydrolase from Rabbit Serum" in Journal of Agricultural and Food Chemistry.

Grothusen and Brown published "Stereoselectivity of Acetylcholinesterase, Arylester Hydrolase, and Chymotrypsin Toward 4-Nitrophenyl Alkyl(phenyl)phosphinates" in Pesticide Biochemistry and Physiology.

P.M. Horton (Assoc Prof) presented "Pesticides and Groundwater Contamination" and "OSHA Safety Standards Regarding Agrichemicals" at the Southern Regional Pesticide Coordinators meeting in Mobile, Ala.

Horton received the 1986 Outstanding Individual Service Award from the Southern Agricultural Chemicals Association for educating the public on a balanced view of agrichemical use today.

J.M. Joly (Former Grad Res Assoc) and T.M. Brown published "Metabolism of Aspirin and Procaine in Mice Pretreated with 0-4-Nitrophenyl Methyl(phenyl) Phosphinate or 0-4-Nitrophenyl Diphenylphosphinate" in Toxicology and Applied Pharmacology 84.

J.C. Morse (Prof) published "Evolution of Feeding and Case-making Behavior in Trichoptera" in Journal of the North American Benthological Society.

P.J. Sieburth (Former Grad Res Asst) and G.R. Carner (Prof) published "A Procedure for Rapid

Diagnosis of an Iridescent Virus Infection in Larvae of Anticarsia gemmatalis" in Journal of Entomological Science.

EXPERIMENTAL STATISTICS

P.M. Burrows (Prof) presented:

-- "Nearly Unbiased Estimation of Nonlinear Prevalence Functions" at the Workshop on Epidemiology of Plant Virus Diseases in Orlando, Fla.

-- "Interaction Concepts for Analysis of Responses to Mixtures of Nematode Populations" at the Silver Jubilee Meeting of the Society of Nematologists in Orlando.

Burrows published:

-- "Extreme Statistics From the Sine Distribution" in The American Statistician.

-- "Variance Weighting Functions in Radioimmunoassay Calibration" in American Journal of Physiology.

EXTENSION SERVICE

J.H. Christenbury (Assoc Prof, home economics) and G.M. Couchman (Assoc Prof) attended the Southern Regional Extension Family Economic Stability and Security Workshop in Atlanta. There, Christenbury presented information on the Clemson University Management Assistance Program.

G.H. Krohn (Prof, 4-H and Youth Development) chaired the session, "The Role 4-H Can Play in the Revitalization of Rural America," at the state 4-H Faculty Pre-Conference Annual Meeting in Harrisburg, Pa.

J.H. Schwartz (Asst

Prof, 4-H and Youth Development) was a counselor for the national 4-H "Profiles for Tomorrow" conference in Washington, D.C.

D.E. Weatherford (Assoc Prof, 4-H and Youth Development) coordinated participation of Clemson faculty and 4-H leaders in the Southern 4-H Volunteer Leaders Forum in Eatonton, Ga.

Others attending the conference include:

-- W.R. James (Asst Prof, 4-H and Youth Development) conducted a workshop on public speaking.

-- M. Wynn (Asst Prof, PRTM) directed a presentation by the 4-H performing arts group.

-- R. Spalding (Pickens Extension Agent) conducted a workshop on photography.

-- H. Corriveau (Beaufort Extension Agent) conducted a workshop on "Stress as a 4-H Volunteer."

GRADUATE SCHOOL

D.B. Stone (Coordinator, Clemson at Greenville Tech) chaired a plenary session on "New NSF Initiatives in Science and Engineering Education -- the Neal Report" at the Southeastern Regional Meeting of the American Chemical Society in Louisville.

HISTORY

J.L. Arbena (Prof) presented "Some Considerations of Music as a Source of Colombian Social History" during the Latin American Studies Association

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meeting in Boston.

C. Bleser (Lemon Prof) gave the September convocation address at Converse College.

Bleser has been appointed to the Board of Editors of Journal of Southern History and to a four-year term on the National Historical Publications and Records Commission representing the American Historical Association.

R.M. Golden (Prof) reviewed Joseph Bergin's Cardinal Richelieu: Power and the Pursuit of Wealth in History: Reviews of New Books.

T. Perdue (Prof) reviewed Native American Periodicals and Newspapers, 1828-1982, edited by James Danky, in Ethnohistory.

J.R. Wunder (Prof and Ed) reviewed Lucy Chen's Chinese in the Post-Civil War South: A People Without a History in Ethnohistory.

HORTICULTURE

R.A. Baumgardner (Prof) co-authored "Conversion Between Southeastern and California Peach Sizes" for HortScience.

D.W. Bradshaw (Assoc Prof) received an anonymous gift of \$10,000 to establish the Clemson Horticultural Gardens Endowment Fund.

J.A. Brittain (Prof and Acting Head) participated in the Caribbean Food Crops Society annual meeting and a conference of the Caribbean Agricultural Research and Development Institute in St. Lucia

and Dominica. Horticulture Professors Brittain, Rhodes, Courtney, Sims and Jones will provide technical advice on root crops to CARDI through and AID-funded Farming Systems Research and Development project.

R.L. Fery (Adj Prof) published "Resistance in Cowpea to the Southern Green Stink Bug" in HortScience.

R.G. Halfacre (Prof) and K.C. Taylor (Grad Asst) published "The Effect of Hydrophilic Polymer on Media Water Retention and Nutrient Availability to Ligustrum lucidum" in HortScience.

Halfacre has co-authored his sixth textbook, Plant Science, published by McGraw-Hill. His Horticulture has been published in Spanish and now is the most used horticulture textbook.

M.T. Haque (Assoc Prof) presented "Visibility for Vegetation" at the Council of Educators in Landscape Architecture Conference in Unicoi, Ga.

L.C. Miller (Prof) gave a presentation on athletic field turf management to the S.C. Parks and Recreation Society in Myrtle Beach.

J.D. Ridley (Assoc Prof) and W.A. Watson (Extension Agent) participated in the Regional Extension Fruit School in Gettysburg, Pa.

LANGUAGES

Six language department faculty members participated in the 36th Mountain Interstate Foreign Language Conference at

Wake Forest University in October:

-- E.P. Arnold (Asst Prof, German) presented "Pen-Pals in Foreign Language Instruction: The Personal Touch."

-- D.J. Calvez (Asst Prof, French) presented "A Systematic Approach to Learning the French Tenses" and chaired a session, "French Literature V: Eighteenth Century."

-- M. Cranston (Prof, French) chaired a session on German literature, "Wine, Women, and the Bizarre: The Short Stories of Heinrich Boell."

-- G.J. Fernandez (Alumni Prof, Spanish) published "Cronica de una Muerto Anunciada, nueva forma de novelar?" in Selected Proceedings of the conference.

Fernandez also presented "La vejez en funcion del amor, en El amor en los tiempos del colera."

-- P.R. Heusinkveld (Asst Prof, Spanish and French) presented "Fears, Expectations and Stereotypes: Orienting Students for Foreign Study."

-- J.M. Melton (Assoc Prof, German) presented "Artistic Reverberations of Nietzsche's 'Das trunkene Lied': Klimt and Mahler."

H. Riley (Prof, German) lectured Oct. 27 at Cambridge University on "German Women Writers of the 18th and 19th Centuries."

H.E. Stewart (Prof, French) published "You Are What You Wear:

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Appearance and Being in Jean Genet's Works" in Francofonia.

Stewart was a contributing editor for "Sidelights: Jean Genet," which was published in the encyclopedia Contemporary Authors.

MANAGEMENT

C.W. McNichols (Prof) presented "Recent Trends in Computer Aspects" at the Computer Technology Utilization for Environmental Health Symposium sponsored by the Ohio Valley section of the American Industrial Hygiene Association.

MARKETING

M.C. LaForge (Asst Prof) presented "An Analysis of High Involvement Spending Decisions in Aging Families" at the Atlantic Marketing Association meeting in Orlando. The paper was published in the society's Proceedings.

MATHEMATICAL SCIENCES

M.M. Kostreva (Assoc Prof) discussed two papers on mathematical models of elastohydrodynamic lubrication at the ASME/ASLE Tribology Conference in Pittsburgh.

Three persons from Clemson gave presentations at the Southeastern Conference on Differential Equations held here and organized by T.G. Proctor (Prof):

-- J. Brannan (Assoc Prof), "Parabolic Ray Theory with Boundaries."

-- K. Driessel (Vstg Assoc Prof), "An Isospectral Gradient Flow."

-- T. Shelton (Grad Stu), "Volterra-Stieltjes Integral Equations with Unbounded Kernels on Inner Product Spaces."

MECHANICAL ENGINEERING

J.G. Goree (Prof) and H.J. Rack (Prof) visited Harris Corp. in Florida to discuss their participation in composites research.

Rack presented "Correlation of Tensile Ductility and Toughness in Discontinuous Metal Matrix Composites" at the American Society for Metals annual meeting.

NURSING

B.F. Campbell (Asst Prof) published "Overdue Delivery: Its Impact on Mothers-to-be" in The American Journal of Maternal Child Nursing.

PARKS, RECREATION AND TOURISM MANAGEMENT

H. Brantley (Prof and Head) is president of the Academy of Leisure Sciences.

R. Howell (Assoc Prof) presented "Rural Tourism Development Opportunities in South Carolina" to the Governor's Rural Development Leaders School and Consultation at the White Oak Center.

Howell also conducted the Third Annual Hospitality and Tourism Invitational at the Outdoor Laboratory.

PHILOSOPHY AND RELIGION

W. Maker (Asst Prof) presented "Hegel's Critique of Marx: The Fetishism of Dialectics" at the Ninth Biennial Meeting of the Hegel Society of America at Emory University.

PHYSICS AND ASTRONOMY

J.R. Ray (Prof), M.D. Kluge (Grad Stu) and A. Rahman (Univ of Minnesota) published "Molecular Dynamic Calculation of Elastic Constants of Silicon" in Journal of Chemical Physics.

Ray presented a talk, "Molecular Dynamics Calculation of Elastic Constants," at Wake Forest University.

C.W. Ulbrich (Prof) presented a paper and chaired a session at the Radar Meteorology and Cloud Physics Conference sponsored by the American Meteorological Society in Snowmass, Colo. After the conference, he discussed with scientists research performed at the National Center for Atmospheric Research in Boulder, Colo.

PSYCHOLOGY

T.R. Alley (Asst Prof) reviewed A Theory of Cognitive Aging, by T.A. Salthouse, in Experimental Aging Research.

B.R. Stephens (Asst Prof) organized and moderated a conference on "Memory: An Interdisciplinary Approach" at Williams College.

Stephens received a \$46,988 grant from the National Institutes of Health for research on the development of form perception in infants.

SOCIOLOGY

L. Peppers (Assoc Prof) and J. Ryan (Asst Prof) published "Discrepancies Between Actual and Aspired Self: A Comparison of Leaders and Nonleaders" in Group and Organization Studies.

FINAL ENROLLMENT IN GRADUATE SCHOOL, FIRST SEMESTER 1986-87

MAJOR	NON- DEGREE	PROF MAST	MA/MS	EDS	EDD/ PHD	TOTAL
COLLEGE OF AGRICULTURAL SCIENCES						
AGRICULTURE (UNDECLARED)	8	-	-	-	-	6
AGRICULTURAL ECONOMICS	-	2	12	-	-	14
AGRICULTURAL EDUCATION	-	19	-	-	-	19
AGRICULTURAL ENGINEERING	-	0	4	-	15	19
AGRICULTURAL MECHANIZATION	-	1	-	-	-	1
AGRONOMY	-	3	13	-	13	29
ANIMAL & FOOD INDUSTRIES	-	-	25	-	-	25
ANIMAL PHYSIOLOGY	-	-	-	-	6	6
ANIMAL SCIENCE	-	2	-	-	-	2
APPLIED ECONOMICS	-	-	-	-	18	18
DAIRY SCIENCE	-	2	-	-	-	2
ENTOMOLOGY	-	0	8	-	14	22
FOOD TECHNOLOGY	-	-	-	-	2	2
HORTICULTURE	-	1	11	-	-	12
NUTRITION	-	6	9	-	9	24
PLANT PATHOLOGY	-	1	7	-	6	14
PLANT PHYSIOLOGY	-	-	-	-	8	8
POULTRY SCIENCE	-	1	-	-	-	1
WILDLIFE BIOLOGY	-	-	23	-	-	23
TOTAL AGRICULTURAL SCIENCES	8	38	112	-	91	249
COLLEGE OF ARCHITECTURE						
ARCHITECTURE	-	64	-	-	-	64
CITY & REGIONAL PLANNING	-	34	-	-	-	34
VISUAL ARTS	-	17	-	-	-	17
TOTAL ARCHITECTURE	-	115	-	-	-	115
COLLEGE OF EDUCATION						
EDUCATION (UNDECLARED)	580	-	-	-	-	580
ADM & SUPERVISION	-	41	-	28	-	69
COUNSELING AND GUIDANCE SERV	-	150	-	-	-	150
ELEMENTARY EDUCATION	-	74	-	-	-	74
INDUSTRIAL EDUCATION	-	25	-	-	-	25
READING	-	30	-	-	-	30
SECONDARY EDUCATION (ENGLISH)	-	7	-	-	-	7
SECONDARY EDUCATION (HISTORY)	-	3	-	-	-	3
SECONDARY EDUCATION (MATH)	-	18	-	-	-	18
SECONDARY EDUCATION (NAT SCI)	-	4	-	-	-	4
SPECIAL EDUCATION	-	30	-	-	-	30
VOCATIONAL & TECHNICAL EDUC	-	-	-	-	25	25
TOTAL EDUCATION	580	382	-	28	25	1015
COLLEGE OF ENGINEERING						
ENGINEERING (UNDECLARED)	7	-	-	-	-	7
BIO-ENGINEERING	-	-	31	-	4	35
CERAMIC ENGINEERING	-	1	10	-	-	11
CHEMICAL ENGINEERING	-	1	16	-	6	23
CIVIL ENGINEERING	-	14	26	-	21	61
COMPUTER ENGINEERING	-	-	30	-	4	34
ELECTRICAL ENGINEERING	-	5	71	-	26	102
ENGINEERING MECHANICS	-	-	4	-	5	9
ENVIR SYSTEMS ENGINEERING	-	15	30	-	11	56
INDUSTRIAL ENGINEERING	-	-	17	-	11	28
MECHANICAL ENGINEERING	-	4	48	-	14	66
TOTAL ENGINEERING	7	40	283	-	102	432
COLLEGE OF COMMERCE AND INDUSTRY						
COMMERCE & IND (UNDECLARED)	26	-	-	-	-	26
ACCOUNTING	-	29	-	-	-	29
BUSINESS ADMINISTRATION	-	148	-	-	-	148
ECONOMICS	-	-	14	-	-	14
INDUSTRIAL MANAGEMENT	-	-	43	-	38	81
MANAGEMENT SCIENCE	-	-	-	-	5	5
TEXTILE & POLYMER SCIENCE	-	-	-	-	3	3
TEXTILE CHEMISTRY	-	-	1	-	-	1
TEXTILE SCIENCE	-	-	7	-	-	7
TOTAL COMMERCE AND INDUSTRY	26	177	65	-	46	314
COLLEGE OF LIBERAL ARTS						
LIBERAL ARTS (UNDECLARED)	3	-	-	-	-	3
ENGLISH	-	-	40	-	-	40
HISTORY	-	-	12	-	-	12
TOTAL LIBERAL ARTS	3	-	52	-	-	55
COLLEGE OF NURSING						
NURSING (UNDECLARED)	10	-	-	-	-	10
FAMILY HEALTH NURSING	-	-	44	-	-	44
TOTAL NURSING	10	-	44	-	-	54
COLLEGE OF SCIENCES						
SCIENCES (UNDECLARED)	7	-	-	-	-	7
BIOCHEMISTRY	-	-	5	-	6	11
BOTANY	-	-	9	-	-	9
CHEMISTRY	-	-	28	-	31	59
COMPUTER SCIENCE	-	-	81	-	13	94
MATHEMATICAL SCIENCES	-	-	61	-	21	82
MICROBIOLOGY	-	-	30	-	16	46
PHYSICS	-	-	8	-	19	27
ZOOLOGY	-	-	18	-	29	47
TOTAL SCIENCES	7	-	240	-	135	382
COLLEGE OF FOR & REC RESOURCES						
FOR & REC RES (UNDECLARED)	1	-	-	-	-	1
FORESTRY	-	5	13	-	13	31
PARKS, RECREATION, AND TOURISM	-	13	10	-	6	29
TOTAL FOR & REC RESOURCES	1	18	23	-	19	61

GRAND TOTAL	642	770	819	28	418	2677

Clemson University Fall Semester 1986
Enrollment by Men and Women – Full Time and Part Time
Numbers as of the End of Registration August 27, 1986

Classification	MEN			WOMEN			TOTAL		
	Full Time	Part Time	Total	Full Time	Part Time	Total	Full Time	Part Time	Total
1st Semester Freshman	1450	20	1470	1206	18	1224	2656	38	2694
2nd Semester Freshman	330	4	334	193	1	194	523	5	528
Sub-Total	1780	24	1804	1399	19	1418	3179	43	3222
1st Semester Sophomore	728	19	747	692	11	703	1420	30	1450
2nd Semester Sophomore	386	27	413	231	7	238	617	34	651
Sub-Total	1114	46	1160	923	18	941	2037	64	2101
1st Semester Junior	754	46	800	666	24	690	1420	70	1490
2nd Semester Junior	511	28	539	260	13	273	771	41	812
Sub-Total	1265	74	1339	926	37	963	2191	111	2302
1st Semester Senior	652	19	671	615	17	632	1267	36	1303
2nd Semester Senior	649	93	742	385	52	437	1034	145	1179
Sub-Total	1301	112	1413	1000	69	1069	2301	181	2482
Unclassified Undergraduate	6	17	23	3	28	31	9	45	54
Post Graduate	46	13	59	25	14	39	71	27	98
Post Baccalaureate	11	3	14	2	5	7	13	8	21
Total Undergraduate	5523	289	5812	4278	190	4468	9801	479	10280
Unclassified Graduate	7	49	56	6	90	96	13	139	152
Masters	551	217	768	283	240	523	834	457	1291
Education Specialist	0	11	11	0	3	3	0	14	14
Pre-Doctoral	25	7	32	6	0	6	31	7	38
Doctors	256	56	312	50	15	65	306	71	377
Total Graduate	839	340	1179	345	348	693	1184	688	1872
On-Campus Total	6362	629	6991	4623	538	5161	10985	1167	12152
Clemson at G-ville Tech	0	38	38	0	31	31	0	69	69
MBA Clemson-Furman	0	106	106	0	43	43	0	149	149
Institutes	0	179	179	0	513	513	0	692	692
Off-Campus Total	0	323	323	0	587	587	0	910	910
University Total	6362	952	7314	4623	1125	5748	10985	2077	13062

Clemson University Fall Semester 1986

Total On-Campus Enrollment by Major and Academic Classification as of the End of Registration August 27, 1986

Major Course	Freshman	Sophomore	Junior	Senior	Unclass Ungrad	Post Grad	Post Bacc	Unclass Grad	Masters	Doctor	Total
College of Agricultural Sciences											
AG-Non-Degree	0	0	0	0	0	0	0	9	0	0	9
AGRIC	5	0	0	0	0	0	0	0	0	0	5
AG BUS	2	1	2	6	0	0	0	0	0	0	11
AG EC	0	0	0	1	0	0	0	0	14	0	15
AG IND	14	1	6	3	0	0	0	0	0	0	24
AG ED	4	2	4	10	0	0	0	0	17	0	37
AG E	5	8	9	8	0	0	0	0	5	14	49
AG MECH	8	7	11	8	0	0	0	0	1	0	35
AGRON	3	3	3	4	0	0	0	0	16	13	42
A&F IND	0	0	0	0	0	0	0	0	25	0	25
AN IND	0	0	0	0	0	0	0	0	0	0	0
AN PH	0	0	0	0	0	0	0	0	0	6	6
AN SC	19	8	12	16	0	1	0	0	2	0	58
APPL EC	0	0	0	0	0	0	0	0	0	18	18
C R D	3	5	0	0	0	0	0	0	0	0	8
DY SC	4	0	7	8	0	0	0	0	2	0	21
EC BIOL	2	0	0	0	0	0	0	0	0	0	2
EC ZOOL	18	8	11	6	0	0	0	0	0	0	43
ENT	2	1	4	2	0	0	0	0	10	12	31
FD SC	9	7	10	8	0	0	0	0	0	0	34
FD TECH	0	0	0	0	0	0	0	0	0	2	2
HORT	0	1	1	0	0	0	0	0	12	0	14
HORT FV	3	1	0	5	0	1	0	0	0	0	10
HORT OR	17	8	13	21	1	0	0	0	0	0	60
HORT TC	4	2	1	2	0	0	0	0	0	0	9
NUTR	0	0	0	0	0	0	0	0	15	9	24
PKG SCI	2	0	0	0	0	0	0	0	0	0	2
PL PATH	0	0	0	0	0	0	0	0	8	6	14
PL PH	0	0	0	0	0	0	0	0	0	8	8
PL SC	0	0	0	0	0	0	0	0	0	0	0
P S	5	0	4	1	0	0	0	0	1	0	11
W B	0	0	0	0	0	0	0	0	22	1	23
College Total	129	63	98	109	1	2	0	9	150	89	649

Major Course	Freshman	Sophomore	Junior	Senior	Unclass Ungrad	Post Grad	Post Bacc	Unclass Grad	Masters	Doctor	Total
College of Architecture											
ARCH NON-DEGREE	0	0	0	0	0	0	0	0	0	0	0
ARCH	0	0	0	0	0	3	7	1	61	0	72
BLDSC	12	24	30	11	0	0	0	0	0	0	77
C R P	0	0	0	0	0	0	0	0	33	0	33
ARCH BA	32	16	19	20	0	0	0	0	0	0	87
ARCH BS	68	45	55	62	0	2	0	0	1	0	233
CRP BA	2	1	0	0	0	0	0	0	0	0	3
CRP BS	0	0	0	0	0	0	0	0	0	0	0
LSAH BA	0	0	0	0	0	0	0	0	0	0	0
LSAH BS	3	1	0	2	0	0	0	0	0	0	6
VIS ART	7	5	1	3	0	0	0	0	0	0	16
VIS-ART	0	0	0	0	0	0	2	0	17	0	19
College Total	124	92	105	98	0	5	9	1	112	0	546

College of Commerce and Industry

C and I-NON-DEGREE	0	0	0	0	0	0	0	5	0	0	5
ACCT	136	103	140	99	0	2	2	0	14	0	496
MBA	0	0	0	0	0	0	1	0	7	0	8
ECON	27	5	8	8	0	0	0	0	0	0	48
ECON	18	25	13	39	0	0	0	0	13	0	108
FIN MGT	146	179	162	150	0	0	0	0	0	0	637
I M	39	55	58	80	0	0	1	0	44	36	313
MGT	241	202	217	226	0	0	0	0	0	0	886
MGT-S&H	5	5	5	10	0	0	0	0	0	0	25
MGT SC	0	0	0	0	0	0	0	0	1	4	5
MKTG	26	8	16	2	0	0	0	0	0	0	52
T-P-S	0	0	0	0	0	0	0	0	0	3	3
T C	5	5	2	5	0	0	0	0	1	0	18
T S	4	0	1	4	0	0	0	0	7	0	16
TEXT T	0	0	3	6	0	0	0	0	0	0	9
T MGT	24	16	8	4	0	0	0	0	0	0	52
College Total	671	603	633	633	0	2	4	5	87	43	2681

College of Education

EDUC NON-DEGREE	4	0	0	0	1	6	0	107	0	0	118
EDUC	0	0	0	0	0	1	0	0	0	0	1
ADM SPV	0	0	0	0	0	0	0	0	34	0	34
C & G S	0	0	0	0	0	0	1	1	114	0	116
E CH ED	43	28	36	44	0	1	0	0	0	0	152
EL ED	104	64	53	68	0	2	0	0	37	0	328
GR COMM	65	47	36	23	0	0	0	0	0	0	171
IN ED	1	0	0	0	0	0	0	0	18	0	19
IN ED-A	7	5	9	10	0	0	0	0	0	0	31
IN ED-I	6	12	10	20	0	0	0	0	0	0	48
IN ED-V	0	0	0	1	0	0	0	0	0	0	1
READING	0	0	0	0	0	0	0	1	23	0	24
SC TCH	0	0	0	0	0	1	0	0	0	0	1
SC T-BS	5	5	6	9	0	1	0	0	0	0	26
SC T-CH	1	0	1	1	0	0	0	0	0	0	3
SC T-BS	1	2	2	2	0	1	0	0	0	0	8
SC T-MA	9	9	8	10	0	0	0	0	0	0	36
SC T-PH	1	3	0	2	0	0	0	0	0	0	6
S ED	0	0	0	0	0	0	0	0	0	0	0
S ED-EC	2	1	0	0	0	1	0	0	0	0	4
S ED-EN	10	14	15	21	0	4	0	0	7	0	71
S ED-HI	7	11	8	13	1	0	0	0	3	0	43
S ED-MA	23	7	14	14	0	1	0	0	10	0	69
S ED-FR	3	2	2	3	0	0	0	0	0	0	10
S ED-GE	1	0	0	0	0	0	0	0	0	0	1
S ED-SP	2	0	0	0	0	0	0	0	0	0	2
S ED-NS	5	1	5	4	0	0	0	0	2	0	17
S ED-PO	2	1	0	2	0	0	0	0	0	0	5
S ED-PS	8	10	3	2	0	1	0	0	0	0	24
S ED-SO	1	0	1	2	0	1	0	0	0	0	5
SPEC ED	0	0	0	0	0	0	0	0	25	0	25
V&T ED	0	0	0	0	0	0	0	1	2	20	23
College Total	311	222	209	251	2	21	1	110	276	20	1423

College of Engineering

ENGR NON-DEGREE	0	0	0	0	0	0	0	7	0	0	7
ENGR	0	0	0	0	0	0	0	0	0	0	0
FR-ENGR	935	208	9	0	1	3	0	0	0	0	1156
BIOENGR	0	0	0	0	0	0	1	0	31	3	35
CR E	0	18	21	23	0	2	0	0	10	0	74
CH E	2	40	33	67	0	2	1	0	19	4	168
C E	0	55	68	94	0	2	0	0	36	21	276
CP ENGR	4	41	102	108	0	1	1	0	31	3	291
E E	8	97	182	182	0	9	1	0	76	25	580
E A	0	2	0	6	0	0	0	0	0	0	8
E M	0	0	0	0	0	0	0	0	4	5	9
E T	0	0	7	59	0	1	0	0	0	0	67
E S E	0	0	0	0	0	0	1	0	46	10	57
I E	1	21	46	29	0	2	0	0	18	11	128
M E	7	97	153	180	0	10	0	0	52	14	513
College Total	957	579	621	748	1	32	5	7	323	96	3369

Major Course	Freshman	Sophomore	Junior	Senior	Unclass Ungrad	Post Grad	Post Bacc	Unclass Grad	Masters	Doctor	Total
College of Forest and Recreation Resources											
F&RR NON-DEGREE	0	0	0	0	0	0	0	1	0	0	1
FOR	0	0	0	0	0	0	0	0	19	12	31
FOR MGT	39	11	16	15	2	0	0	0	0	0	83
PRTM	110	77	73	78	0	0	0	0	25	4	367
WD UTIL	5	2	4	7	0	0	0	0	0	0	18
College Total	154	90	93	100	2	0	0	1	44	16	500

College of Liberal Arts

L A NON-DEGREE	0	0	0	0	0	0	0	5	0	0	5
LIB ART	128	18	4	0	0	0	0	0	0	0	150
ENGL	55	24	40	44	0	0	1	0	39	0	203
FR	10	12	8	2	0	0	0	0	0	0	32
GER	4	1	1	2	0	0	0	0	0	0	8
HIST	15	9	10	13	0	0	0	0	11	0	58
PO SC	79	45	44	41	0	1	0	0	0	0	210
PSYCH	98	44	59	35	0	0	0	0	0	0	236
SOC	21	16	21	19	0	0	0	0	0	0	77
SPAN	4	2	4	4	0	0	0	0	0	0	14
College Total	414	171	191	160	0	1	1	5	50	0	993

College of Nursing

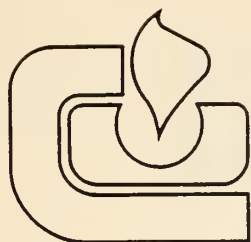
NURS NON-DEGREE	0	0	0	0	0	0	0	5	0	0	5
NURS	70	51	83	107	0	5	0	0	0	0	316
FH NURS	0	0	0	0	0	0	0	1	41	0	42
College Total	70	51	83	107	0	5	0	6	41	0	363

College of Sciences

SCS NON-DEGREE	0	0	0	0	0	0	0	7	0	0	7
BIO CH	28	13	20	9	0	0	0	0	7	5	82
BOT	0	0	0	0	0	0	0	0	9	0	9
BIO SC	5	0	0	0	0	0	0	0	0	0	5
BIO SC	29	11	0	0	0	0	0	0	0	0	40
CH BA	1	0	3	1	0	0	0	0	0	0	5
CH	18	12	10	8	0	0	0	0	34	25	107
CPINSYS	23	15	30	37	1	0	0	0	0	0	106
COMP SC	87	38	65	82	2	4	1	1	86	8	374
GEOL BA	2	0	0	2	0	0	0	0	0	0	4
GEOL	0	3	3	7	0	0	0	0	0	0	13
MATH BA	9	6	3	5	0	0	0	0	0	0	23
MATH	33	26	50	52	0	0	0	0	63	19	243
MED T	10	8	8	5	0	0	0	0	0	0	31
MICRO	16	24	32	27	0	3	0	0	32	12	146
PHYS BA	0	0	0	0	0	0	0	0	0	0	0
PHYS	13	4	6	7	0	0	0	0	12	16	58
PPHS	59	18	8	0	0	0	0	0	0	0	85
P-PHARM	12	13	1	0	0	0	0	0	0	0	26
P-PHY	24	14	6	0	0	0	0	0	0	0	44
ZOOL BA	1	1	0	1	0	0	0	0	0	0	3
ZOOL	7	19	23	27	0	0	0	0	18	28	122
College Total	377	225	268	270	3	7	1	8	261	113	1533

UNIV NON-DEGREE	15	5	1	6	0	23	0	0	0	0	50
SPEC-STUDENTS	0	0	0	0	45	0	0	0	0	0	45

On Campus Total	3222	2101	2302	2482	54	98	21	152	1343	377	12152
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Events

INFORMATION FOR THE FACULTY AND STAFF OF CLEMSON UNIVERSITY

This calendar is prepared up to a month in advance. Please send in writing to the MASTER CALENDAR EDITOR, Trustee House, any campus event that should be listed. You also may call 656-3862 to check the UNIVERSITY MASTER CALENDAR for possible scheduling conflicts. (Call the number listed in each entry for more information.)

November 14-21

CONFERENCES, LECTURES AND MEETINGS

- 13-14 Meeting: S.C. Entomological Society. Sponsored by entomology department (656-3113), Ramada Inn.
- 17 Meeting: Developing a Language and International Trade Degree Program (656-2626). Liberal Arts deans, department heads and faculty, 9 a.m., 801 Strode Tower; Commerce and Industry, 10:30 a.m., 165D Sirrine Hall; Agricultural Sciences, 1:30 p.m., F149 P&A Building; Forest and Recreation Resources, 3 p.m., 133 Lehotsky.
- 17 Panel: "Clemson Students' Perceptions of Clemson Faculty." Sponsored by American Association of University Professors (656-3816), 4 p.m., 108 Strode, free.
- 17 Meeting: International Business, French, German and Spanish clubs. Topic: careers in international trade. Sponsored by languages department (656-2626), 7 p.m., 108 Strode Tower.
- 18 Symposium: "Communication and International Trade." Sponsored by languages department (656-2626), 1:30 p.m., 108 Strode Tower.
- 18-19 Conference: Slashing. Sponsored by Professional Development (656-2200), Ramada Inn.
- 18-19 Conference: Color Science Workshop. Sponsored by Professional Development (656-2200), Sirrine Hall.
- 20 Meeting: Institute of Industrial Engineers (656-2703), 7 p.m., 300 Riggs Hall, open to public.

ART, MOVIES AND PERFORMANCES

- 14 Band: Killer Whales. Sponsored by University Union (656-2461), 9 p.m. Edgar's.
- 14-15 Movie: "White Nights." Sponsored by University Union (656-2461), 7 & 9:30 p.m., Y-Theatre, \$1.50.
- 16 Movie: "Arthur." Sponsored by University Union (656-2461), 7 & 9:15 p.m., Y-Theatre, free with I.D.

Answers

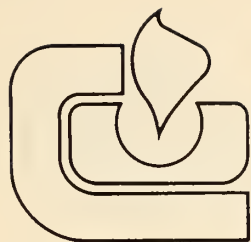
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11	21	31	41	51	61	71	81	91	101	111
12	22	32	42	52	62	72	82	92	102	112
13	23	33	43	53	63	73	83	93	103	113
14	24	34	44	54	64	74	84	94	104	114
15	25	35	45	55	65	75	85	95	105	115
16	26	36	46	56	66	76	86	96	106	116
17	27	37	47	57	67	77	87	97	107	117
18	28	38	48	58	68	78	88	98	108	118
19	29	39	49	59	69	79	89	99	109	119
20	30	40	50	60	70	80	90	100	110	120
21	31	41	51	61	71	81	91	101	111	121
22	32	42	52	62	72	82	92	102	112	122
23	33	43	53	63	73	83	93	103	113	123
24	34	44	54	64	74	84	94	104	114	124
25	35	45	55	65	75	85	95	105	115	125
26	36	46	56	66	76	86	96	106	116	126
27	37	47	57	67	77	87	97	107	117	127
28	38	48	58	68	78	88	98	108	118	128
29	39	49	59	69	79	89	99	109	119	129
30	40	50	60	70	80	90	100	110	120	130
31	41	51	61	71	81	91	101	111	121	131
32	42	52	62	72	82	92	102	112	122	132
33	43	53	63	73	83	93	103	113	123	133
34	44	54	64	74	84	94	104	114	124	134
35	45	55	65	75	85	95	105	115	125	135
36	46	56	66	76	86	96	106	116	126	136
37	47	57	67	77	87	97	107	117	127	137
38	48	58	68	78	88	98	108	118	128	138
39	49	59	69	79	89	99	109	119	129	139
40	50	60	70	80	90	100	110	120	130	140
41	51	61	71	81	91	101	111	121	131	141
42	52	62	72	82	92	102	112	122	132	142
43	53	63	73	83	93	103	113	123	133	143
44	54	64	74	84	94	104	114	124	134	144
45	55	65	75	85	95	105	115	125	135	145
46	56	66	76	86	96	106	116	126	136	146
47	57	67	77	87	97	107	117	127	137	147
48	58	68	78	88	98	108	118	128	138	148
49	59	69	79	89	99	109	119	129	139	149
50	60	70	80	90	100	110	120	130	140	150
51	61	71	81	91	101	111	121	131	141	151
52	62	72	82	92	102	112	122	132	142	152
53	63	73	83	93	103	113	123	133	143	153
54	64	74	84	94	104	114	124	134	144	154
55	65	75	85	95	105	115	125	135	145	155
56	66	76	86	96	106	116	126	136	146	156
57	67	77	87	97	107	117	127	137	147	157
58	68	78	88	98	108	118	128	138	148	158
59	69	79	89	99	109	119	129	139	149	159
60	70	80	90	100	110	120	130	140	150	160
61	71	81	91	101	111	121	131	141	151	161
62	72	82	92	102	112	122	132	142	152	162
63	73	83	93	103	113	123	133	143	153	163
64	74	84	94	104	114	124	134	144	154	164
65	75	85	95	105	115	125	135	145	155	165
66	76	86	96	106	116	126	136	146	156	166
67	77	87	97	107	117	127	137	147	157	167
68	78	88	98	108	118	128	138	148	158	168
69	79	89	99	109	119	129	139	149	159	169
70	80	90	100	110	120	130	140	150	160	170
71	81	91	101	111	121	131	141	151	161	171
72	82	92	102	112	122	132	142	152	162	172
73	83	93	103	113	123	133	143	153	163	173
74	84	94	104	114	124	134	144	154	164	174
75	85	95	105	115	125	135	145	155	165	175
76	86	96	106	116	126	136	146	156	166	176
77	87	97	107	117	127	137	147	157	167	177
78	88	98	108	118	128	138	148	158	168	178
79	89	99	109	119	129	139	149	159	169	179
80	90	100	110	120	130	140	150	160	170	180
81	91	101	111	121	131	141	151	161	171	181
82	92	102	112	122	132	142	152	162	172	182
83	93	103	113	123	133	143	153	163	173	183
84	94	104	114	124	134	144	154	164	174	184
85	95	105	115	125	135	145	155	165	175	185
86	96	106	116	126	136	146	156	166	176	186
87	97	107	117	127	137	147	157	167	177	187
88	98	108	118	128	138	148	158	168	178	188
89	99	109	119	129	139	149	159	169	179	189
90	100	110	120	130	140	150	160	170	180	190
91	101	111	121	131	141	151	161	171	181	191
92	102	112	122	132	142	152	162	172	182	192
93	103	113	123	133	143	153	163	173	183	193
94	104	114	124	134	144	154	164	174	184	194
95	105	115	125	135	145	155	165	175	185	195
96	106	116	126	136	146	156	166	176	186	196
97	107	117	127	137	147	157	167	177	187	197
98	108	118	128	138	148	158	168	178	188	198
99	109	119	129	139	149	159	169	179	189	199
100	110	120	130	140	150	160	170	180	190	200

- 17 Movie: "Red Dawn." Sponsored by University Union (656-2461), 8 p.m., Y-Theatre, \$1.
- 19 Movie: "Stranger Than Paradise." Sponsored by University Union and College of Liberal Arts (656-5832), 7:30 p.m., Y-Theatre, \$2.
- 20 Performing Artist Series: Shakespeare's "Romeo and Juliet" by the National Players. Sponsored by University Union and Alumni Association (656-2461), 8 p.m., Tillman Hall Auditorium, \$4 students and senior citizens, \$6 public.
- 20 Concert: The Fabulous Showmen. Sponsored by University Union (656-2461), 9 p.m., Edgar's, \$3, \$2 for persons wearing Greek letters.
- 20-22 Movie: "Back to the Future." Sponsored by University Union (656-2461), 7 and 9:15 p.m., Y-Theatre, \$1.50.

OTHER EVENTS

- 14 Men's Swimming: Georgia Tech, 4:30 p.m., Fike Recreation Center (656-2101).
- 14-16 Road trip to Maryland football game. Sponsored by University Union (656-2461), \$99.
- 15 16th Annual Foreign Language Declamation Contest. Sponsored by languages department (656-3393), 10 a.m., Daniel Hall Auditorium.
- 15 Christmas shopping trip to Atlanta. Sponsored by University Union (656-2461), \$10.
- 15 Child Safe Day. Sponsored by Clemson YMCA (656-2460), 1-4 p.m., various locations, free.
- 15 Men's and Women's Swimming: Virginia, Fike Recreation Center (656-2101).
- 17-26 Submit applications for end-of-semester room change. (656-2295).
- 18 Sweetheart Pageant to benefit Sickle Cell Anemia. Sponsored by Delta Sigma Theta (656-4294), 8 p.m., Daniel Hall Auditorium, \$1.
- 18 Short Course: Rape Prevention. Sponsored by University Union (656-2461), 7-8 p.m., free.
- 18-20 Blood Drive. Sponsored by Alpha Phi Omega fraternity, Blue Ridge Shrine Club and Foothills Blood Center (654-6430), 11 a.m. - 7 p.m., Palmetto Ballroom.
- 20 Men's and Women's Swimming: University of Florida, 7 p.m., Fike Center (656-2101).
- continuous YMCA-sponsored classes in women's and men's fitness, youth fitness, aerobics, exercise, Jazzercise, social dancing, Middle Eastern dance, swimming, gymnastics, lifesaving and after-school day-care programs (656-2460).





Events

INFORMATION FOR THE FACULTY AND STAFF OF CLEMSON UNIVERSITY

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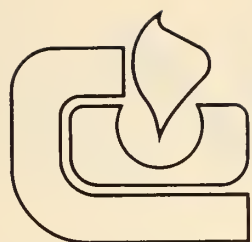
NOV 19 1986

November 21-28

- 21 & 22 **Movie: "Back to the Future."** 7 and 9:15 p.m., Y-Theatre, \$1.50. (University Union, 656-2461)
- 22 **Football: South Carolina,** 1 p.m., Death Valley. (656-2101)
- 23 **Movie: "The Big Chill."** 7 and 9:15 p.m., Y-Theatre, \$1. (University Union, 656-2461)
- 24 **Movie: "Yellowbeard."** 8 p.m., Y-Theatre, \$1. (University Union, 656-2461)
- 24 **Film: "Moscow Doesn't Believe in Tears."** 7:30 p.m., 106 Daniel Hall, Russian with English subtitles. (Languages Department, 656-3393)
- 24 **Lecture: "Agriculture in the Recent World: Questions of History, Economics and Morals,"** by Richard Saunders, associate professor of history. 3:30 p.m., 108 Strode Tower, free. (Liberal Arts, 656-3263)
- 25 **Seminar: Desktop Publishing on the MacIntosh.** (Apple Computer, 654-9252)
- 25 **Video: "Casablanca."** 8 p.m., Edgar's, free. (University Union, 656-2461)
- 25 **Chamber Music Series:** Michelle Vought and Richard Troxell, soprano and tenor. 8 p.m., Daniel Hall Auditorium, free. (Music Department, 656-3043)
- 25 - Dec. 18 **Exhibit: MFA Thesis Exhibition/Architectural Terminal Reviews.** 9 a.m. - 4:30 p.m. weekdays, 2-5 p.m. Sundays; Rudolph E. Lee Gallery, Lee Hall; free. (College of Architecture, 656-3081)
- 27-28 **Thanksgiving;** University closed.
- 28-29 **Men's Basketball: IPTAY Tournament.** 7 and 9 p.m., Littlejohn Coliseum. (656-2101)

Continuous YMCA-sponsored classes in women's and men's fitness, youth fitness, aerobics, exercise, Jazzercise, social dancing, Middle Eastern dance, swimming, gymnastics, lifesaving and after-school day-care programs. (656-2460)

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Events

INFORMATION FOR THE FACULTY AND STAFF OF CLEMSON UNIVERSITY

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November 28 - December 5

- | | |
|--------------------|--|
| Through
Nov. 30 | Art Show and Sale: Watercolors by Clemson artist Elizabeth Belser Fuller. Proceeds go to Horticultural Gardens endowment. Duke Power office, Highway 123 near Ramada Inn, free. (Clemson Area Arts Council, 654-2213) |
| 27-28 | Thanksgiving , University closed. |
| 28-29 | Men's Basketball: IPTAY Tournament , 7 and 9 p.m., Littlejohn Coliseum. (656-2101) |
| 29 | Men's and Women's Swimming: Tiger Invitational , Fike Recreation Center. (656-2101) |
| Dec. 1 | Concert Series: Norman Luboff Choir , 8 p.m., Tillman Hall Auditorium; \$6 adults, \$2 children, students free. (Music Department, 656-3043) |
| 2 | Seminar: "1986 Year-end Tax Planning for Small Businesses" , 7-9:30 p.m., Holiday Inn, \$15. (Small Business Development Center, 656-3227) |
| 2 | Applied Music Student Recital , 7:30 p.m., Daniel Hall Auditorium, free. (Music Department, 656-3043) |
| 2 | Wrestling: Oregon State , Jervey Athletic Center. (656-2101) |
| 2-4 | Conference: Advanced Ceramic Processing , 9 a.m. - 5 p.m., Ramada Inn. (Continuing Engineering Education, 656-2200) |
| 2-5 | Exhibit: "Annual Student/Faculty Art Sale and Exhibition" , 9 a.m. - 4:30 p.m. weekdays, 2-5 p.m. Sundays; Rudolph E. Lee Gallery, Lee Hall; free. (College of Architecture, 656-3081) |
| 3 | Men's Basketball: UNC-Asheville , 7:30 p.m., Littlejohn Coliseum. (656-2101) |
| 3 | New Faculty Luncheon Meeting , noon, Palmetto Ballroom. (656-3022) |
| 4 | Concert: Clemson University Chorus and Choral Ensembles , 8 p.m., Tillman Hall Auditorium, free. (Music Department, 656-3043) |
| 5 | "Tributes Through Trees" Day : horticulture students' celebration of Arbor Day. (Horticulture Department, 656-4958) |

Continuous YMCA-sponsored classes in women's and men's fitness, youth fitness, aerobics, exercise, Jazzercise, social dancing, Middle Eastern dance, swimming, gymnastics, lifesaving and after-school day-care programs. (656-2460)

2000/01

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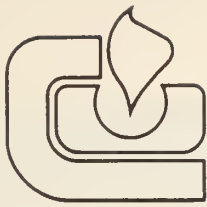
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DEC 4 1986

Newsletter

Dec. 3, 1986
Vol 26 No 14

INFORMATION FOR THE FACULTY AND STAFF OF CLEMSON UNIVERSITY

STAFF COMMISSION ENDORSES PLANS FOR NEW FACULTY/STAFF DINING ROOM

At its Nov. 11 meeting, the Commission on Classified Staff Affairs endorsed a plan to turn Edgar's night club in the University Union into a faculty/staff dining facility.

Edgar's will be renovated and ARA will begin serving a daily light lunch there to University employees in January 1987, said commission member Gail Jameson.

Jameson, who has been working with Business Services' business manager Steve Copeland on the plans, said Edgar's is a temporary site for the dining facility. Possible future locations include the Strom Thurmond Institute and the Continuing Education Center.

In other announcements, commission Chair Pat Padgett said Martin Fowler will be the Staff Commission's representative on the Telecommunications Committee to study the merits of the University's telephone system.

Also, Hank Goodman will represent the commission on the Blue Light Alarm System Committee, established to study the feasibility of installing a campus-wide silent alarm system.

The commission will meet again Dec. 9.

BUSINESS AND FINANCE NAMES FOUR EMPLOYEES OF THE MONTH

Four Office of Business and Finance staff members have been named "employees of the month" for September.

They are Zelda Rankin, communications consultant in Telecommunications; Gail Roberts, executive support specialist in Financial Management; Sybil Coward, data coordinator in Budgets and Systems; and Ronnie Hood, master craftsman in the Physical Plant Division.

Vice President for Business and Finance David Larson said several clerical and supporting Business and Finance staff members will receive this recognition each month.

The purpose of the awards is to recognize publicly employees' outstanding contributions to the University.



MARYN INABINET, 1985-86 chair of the University's Board of Visitors, received a plaque in appreciation for "outstanding work and exemplary leadership" of the Board, the University's top public advisory group. Chairman of the Board of Defender Industries of Columbia, Inabinet was presented the plaque by Acting Vice President for Institutional Advancement Walter Cox.

NEWSLETTER DEADLINES

Send your items for the Newsletter to Newsletter Editor, Fike Center.

Deadlines are at noon each THURSDAY BEFORE THE NEXT WEDNESDAY'S ISSUE, eight days ahead. Deadlines may vary to fit holiday schedules; changes will be announced in the masthead section of the Newsletter.

ENGLISH, MANAGEMENT PROFESSORS RECEIVE FULBRIGHT AWARDS

Clemson Professors Clinton Whitehurst Jr. of the management department and Frank Day of the English department have been awarded Fulbright Scholar Grants for 1986-87.

Whitehurst's grant will allow him to lecture at the Central Institute of Road Transport in Pune, India.

He is a former head of the industrial management department and has written five books and 100 articles on transportation, defense, logistics and management.

Day's grant is for lecturing at Dhaka University in Dhaka, Bangladesh.

A Clemson English professor since 1967, Day was a 1980-81 Fulbright lecturer in American literature in Romania.

STUDENTS CELEBRATE ARBOR DAY WITH TREE TRIBUTES

Dec. 5 is not only the last day of classes, but also "Tributes Through Trees" Day on campus.

Established by horticulture students to celebrate Arbor Day, "Tributes Through Trees" is a way to honor or memorialize someone or celebrate an occasion.

"Families of the persons being honored will receive a card acknowledging the gifts," said Mary Haque, associate professor of horticulture.

"In addition, trees will be tagged with the names of the donors and honorees, and a list of those involved will be kept by the University."

The special day's purpose is to promote environmental awareness in the community, she said.

To purchase plants, contact campus landscape architect Andy Anderson at 656-4940. He is working with students to select, place and plant the trees and bushes.

A minimum donation of \$30 is required to cover expenses.

FACILITIES PLANNING COMMITTEE HOLDS FIRST MEETING

A new University-wide committee to oversee the planning for campus growth and facility improvements held its first meeting Nov. 12.

The Facilities Planning Committee, chaired by Vice President for Business and Finance David Larson, replaces the Commission on Physical Facilities and the Planning Board.

The group will recommend to the President's staff policies and procedures related to the University's physical facilities and will make every effort to ensure Clemson's long-range goals are met, said Larson.

"One of the first things we need to look at is the campus master plan," he said.

"The shift in Clemson's emphasis to research indicates we need to make sure the master plan is still relevant."

Larson said specific responsibilities of the committee include:

- setting permanent improvement priorities,
- ensuring conformity to the campus and landscape master plans,
- providing direction for the construction, renovation, maintenance and use of physical facilities, and
- providing direction for special circumstances, including water shortages and asbestos removal.

At its first meeting, the committee discussed the status of current capital improvement plans, ideas for remodeling Johnstone Hall to complement the design of historic buildings nearby, and ways to improve University-wide communication concerning the asbestos problem.

(Continued on page 3.)



The Clemson University Newsletter is published for Harriet White, clerical specialist in the Personnel Division, and for all members of the faculty and staff by the Division of University Relations.

University Newsletter Editor .. Deborah M. Slice
Acting Director, News Services .. Catherine Sams

We welcome your comments and suggestions. Call us at 656-4989 or write us at 103 Fike Center. DEADLINE is Dec. 9, noon, for Dec. 17 issue.

(Continued from page 2.)

PRESIDENT'S COUNCIL DECIDES TO KEEP M.S., M.A. REQUIREMENTS

At the President's Council meeting Oct. 31, members passed a motion not to implement proposed changes of M.A. and M.S. degree requirements.

The council decided by mail ballot April 24 to change the number of 800-level courses required of master's degree candidates from half of the total graduate hours taken to a minimum of 18 hours.

Faculty members, concerned that the decision had been made with little faculty input, asked that the changes be delayed until the faculty discusses the proposed changes and assesses their impact on the graduate program.

The President's Council has sent the matter back to the Commission on Graduate Studies for more study.

The new committee includes members representing many areas of the University community: Jack Wilson, Facilities Planning and Development, committee vice chairman; A.E. Schwartz, Academic Affairs; Bill Pace, the administration; A.W. Snell, Agriculture and Natural Resources; Robert Christenberry, Institutional Advancement; Almeda Rogers, Student Affairs; Larry Dyck, Faculty Senate; James Barker, College of Architecture; Pat Padgett, Commission on Classified Staff Affairs; and Ryan Amacher, Council of Deans.

The group also includes faculty representatives Joe Mullins, Martin Davis and Cecil Huey; student leaders Fred Richey and Ron Merritt; Mark Wright, campus master planner; and Walt Stone, Physical Plant.

Six sub-committees report to the Planning Committee: Landscape and Site Development, Andy Anderson, chair; Safety and Environmental Health, Walt Berry; University Parking and Traffic, Bill Pace; University Committee on the Handicapped, Merrill Palmer; Building Design and Construction, Jerry Boyer; and Campus Master Plan.

The committee will meet the third Wednesday of each month.

NEW DIRECTOR TURNING CLEMSON HOUSE INTO SUMMER CONFERENCE CENTER

by Kelly Winters

Jeff Martin, the new director of the Clemson House, plans to turn the hotel into a major summer conference center.

"We'd like to make Clemson University into the conference center of the South," he said.

Already the seventh floor and penthouse have been renovated, and plans call for improvements to the first floor, student rooms and the five conference rooms over the next two years.

"Mr. Martin was brought here because of his expertise in the summer conferencing marketing business," said Almeda Rogers, assistant vice president for student affairs.

Martin was assistant director of housing and conferencing services at Western Carolina University before joining Clemson in August.



MANAGING DUTIES--Jeff Martin, left, manager of the Clemson House since August, checks over conference details with staff members Terri Blackston, center, and Louie Campbell.

COMPUTER CENTER INSTALLS NEW MAINFRAME

Saturday is just like any other workday at the Computer Center, but Nov. 15 was busier than usual as the University replaced its four-year-old mainframe computer.

At about 7 a.m., the University powered down the IBM 3081 mainframe for the last time and traded it in on a National Advanced Systems AS/XL 60, a high-speed processor representing the latest in computer technology.

"The AS/XL is expected to provide a considerably improved service over its predecessor, which was having difficulty keeping up with Clemson's workload requirements," said Chris Duckenfield, vice provost of computing and information technology.

The new computer will perform scientific calculations at a much higher speed than the machine it is replacing, he said.

The computer also is suited to handle well the thousands of geographically dispersed workstations.

S.C. RETIREMENT SYSTEM CONDUCTS INSURANCE MEETING FOR RETIREES

A meeting for state retirees interested in changing their health or dental insurance policies will be held at 11 a.m. Dec. 12 at Tri County Technical College.

Representatives from the S.C. Retirement System insurance benefits section and Health Maintenance Organizations (HMOs) will discuss health insurance options available during the special December open enrollment for retirees.

For more information about the meeting or about retirees' open enrollment, call the Payroll and Employee Benefit Programs Office, 656-2000.

COMMISSION ON HIGHER EDUCATION FUNDS MATH, ADVANCED PLACEMENT CENTER

The S.C. Commission on Higher Education has awarded a \$182,320 grant to support Clemson's Center of Excellence in Mathematics and Advanced Placement Education.

The center was established in 1985 with an initial grant of \$49,920 as a joint project of the colleges of Sciences and Education to help meet goals for improved mathematics education called for by the Education Improvement Act.

The center is involved in training and assisting teachers of all levels of math, from remedial to Advanced Placement (AP) courses that allow high school students to earn college credit, and this year will expand into AP biology.

The increased funding to expand the programs indicates how active the center has been during its first year, said John Luedeman, center director and professor of mathematical sciences.

Programs begun during the first year include a clearinghouse of courses teachers can take to improve their skills and content knowledge, a free short-course to help prepare teachers and students for the National Teachers Exam in mathematics, and a research project evaluating computer software and teaching materials for AP calculus courses.

With the additional funding, those programs will continue and new ones will be added:

- Education Professor Sam Buckner will work with a group of teachers to evaluate computer software and other materials for remedial and compensatory math courses.

- Video disc-based mini courses in pre-algebra will be tested and evaluated by a team of teachers.

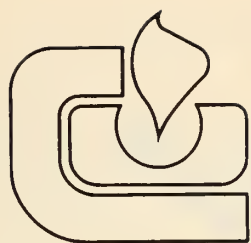
- Alumni Professor of Mathematics John Kenelly is developing an AP calculus course for electronic delivery to schools where the demand for the course is too low to warrant a standard course offering. Students will communicate with the teacher using an electronic blackboard.

- Biology program director Doris Helms is developing a similar electronic package for AP biology teachers.

- Don LaTorre and Stanley Lukawecki, professors of mathematical sciences, are developing booklets on setting up competitive math teams that will help increase student interest in the subject.

- Off-campus programs are being developed to help teachers with master's degrees earn credit toward education specialist degrees.

- An institute to help middle-school teachers earn certification as secondary math teachers is being planned.



Events

INFORMATION FOR THE FACULTY AND STAFF OF CLEMSON UNIVERSITY

This calendar is prepared up to a month in advance. Please send in writing to the MASTER CALENDAR EDITOR, Trustee House, any campus event that should be listed. You also may call 656-3862 to check the UNIVERSITY MASTER CALENDAR for possible scheduling conflicts. (Call the number listed in each entry for more information.)

DEC 4 1986

December 5 - 12

- 4-5 **Course: "The Computer as a Management Tool in Education."** \$25; \$93 if taken for college credit. (Elementary and Secondary Education Department, 656-5105)
- 4-6 **Movie: "Spies Like Us."** 7 and 9:15 p.m., Y-Theatre, \$1.50. (University Union, 656-2461)
- 5 **"Tributes Through Trees" Day:** horticulture students' celebration of Arbor Day. 2-5 p.m., Horticultural Gardens. (Horticulture Department, 656-4940)
- 6 **Men's Basketball: Texas Tech.** 5 p.m. Littlejohn Coliseum. (656-2101)
- 6 **Women's Basketball: South Carolina.** 7:30 p.m., Littlejohn Coliseum. (656-2101)
- 7 **"Straight Talk" Television Program:** the new Language and International Trade curriculum. 10 a.m. and 10:30 p.m., WAXA-TV, Channel 40. (University Relations, 656-3859)
- 8 **Meeting: Professional Secretaries International.** 7 p.m., Shoney's restaurant. (656-2249)
- 8-9 **South Carolina/Georgia Winter Apple Meeting.** Ramada Inn. (S.C. Apple Growers' Association, Georgia Marketing Authority and the S.C. and Georgia Cooperative Extension Services, 656-3403)
- 8-13 **Examinations**
- 10 **Meeting: Women in Higher Education.** Noon, Golden Corral restaurant. Speaker: Barbara Foltz, University Counseling Center.
- 10-11 **Conference: Textile Printing.** Ramada Inn. (Professional Development, 656-2200)

Continuous YMCA-sponsored classes in women's and men's fitness, youth fitness, aerobics, exercise, Jazzercise, social dancing, Middle Eastern dance, swimming, gymnastics, lifesaving and after-school day-care programs. (656-2460)

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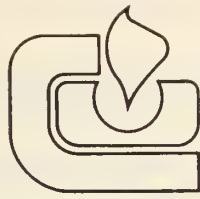
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Newsletter

Vol. 26, No. 15

Dec. 10, 1986

Information for the faculty and staff of Clemson University

Briefly...

United Way still collecting; \$51,442 donated to date

Clemson's United Way campaign has raised \$51,442 to date, and donations still are being collected.

The percentage of employees contributing to the fund increased this year, from 18 to 21 percent, said Jackie Greene, a campaign coordinator from the Office of Human Resources.

To contribute, contact Greene or campaign coordinator Frank Mauldin at 656-3181.

President's Council changes registration policy

At the President's Council meeting Nov. 21, members agreed to change the registration policy for students on academic probation.

Under current policy, the maximum load any student can carry is 21 hours, or 15 hours for a student on probation.

Because the current policy is difficult to enforce, council members agreed that the 21- and 15-hour limits be listed as recommendations rather than absolute limits.

The revised policy no longer will require department heads to give students written permission to take more than the recommended number of courses.

In addition, preregistration and registration forms for students on probation will state the recommended course load as a guideline for both students and advisers.

Gov. Riley, Dickey to receive honorary degrees here Dec. 18

Gov. Richard Riley and author James Dickey will receive honorary degrees at Clemson's commencement Dec. 18.

About 800 students are expected to graduate during the 11 a.m. ceremonies in Littlejohn Coliseum.

Gov. Riley will deliver the commencement address.

A native of Greenville, Riley served four years in the S.C. House of Representatives and 10 years in the State Senate prior to being elected governor in 1978 and re-elected in 1982.

During his tenure as governor, he became a nationally recognized leader in the areas of public education reform, nuclear waste disposal and preventive health care.

He initiated the Education Improvement Act, judged the most comprehensive educational reform measure in the country by a RAND Corporation study.

In a 1986 Newsweek poll of the nation's governors, Riley was ranked the third most effective governor by his colleagues.

Dickey, author of the book "Deliverance," is poet-in-residence at the University of South Carolina and was the first Carolina Professor named at USC.

A star halfback in high school and later at Clemson, Dickey joined the Air Force after his freshman year of college. After World War II, he earned his bachelors' and master's degrees at Vanderbilt University.

He began teaching and publishing poetry at Rice University in 1962 and was awarded a Guggenheim Fellowship.

He served two terms as poetry consultant to the Library of Congress and has taught at Reed College, the University of Wisconsin, San Fernando Valley State University, Georgia Tech University and USC.

\$50,000 trust funds set up to support College of Engineering programs

A Charleston businessman and a Clemson alumnus have established \$50,000 trust funds within the Clemson University Foundation for programs in the College of Engineering.

Clyde V. Madren Sr., founder of Madren Paint Co. in Charleston, has created an annuity trust, which, after his death, will support civil engineering scholarships named for him and his late wife, Mamie.

Madren's son, Clyde V. Madren Jr., is a 1965 graduate of the civil engineering program here.

John T. Mundy, a retired executive of S.C. Electric and Gas Co., has set up a fourth trust fund to support academic programs.

The new fund is the second \$50,000 trust he has established to provide graduate fellowships in electrical and computer engineering. He set up a similar trust in 1985.

Mundy graduated from Clemson in 1928 in electrical engineering.

In 1984 he set up a \$50,000 annuity trust for the John T. Mundy Electrical Engineering Scholarship for Clemson undergraduates.

Clemson awarded \$750,000 for acid rain research

Clemson's experimental forest is one of five Southern sites to be used in a comprehensive U.S. Department of Agriculture study of the effects of acid rain and other atmospheric pollutants on trees.

The University will receive \$750,000 over the next three years to participate in the research, which is sponsored by the U.S. Environmental Protection Agency through USDA's Forest Service.

The aim of the research is to find out whether commercially important forestry crops are being damaged by major pollutants (ozone, sulfur dioxide and several nitrous oxides) found in acid rain, dust or other dry

matter in the atmosphere.

Clemson researchers will concentrate on ozone, which has the greatest potential for harm to Southern trees.

While the upper-atmosphere ozone layer protects humans, animals and plants from harmful ultra-violet radiation, high localized levels can cause damage to trees or agricultural crops, said David McGregor, forestry professor and principal investigator.

High levels of ozone can occur naturally or as a result of industrial activities.

Ozone, a type of "excited oxygen," can damage the foliage of trees, because, like carbon dioxide, it

is absorbed into the leaves, McGregor said.

"We don't fully understand the physiology of how ozone reacts with plants. The information we gather in this study should help us learn how to deal with it," he said.

The University will plant pine seedlings in 24 open-top chambers in the experimental forest. The seedlings will be exposed to various levels of ozone and to controlled artificial acidic rainstorms throughout the three-year project.

The first year's grant of \$450,000 will be used to build the chambers, purchase analytical equipment and start the treatments at the forest site.

Research, Extension computer networks flourishing

Two computer service networks here, TECNET and CUFAN, are expanding their services every day to help clients save time and money in gathering important information.

TECNET, Clemson's acronym for the "test and evaluation community network" set up for researchers studying the effectiveness of procedures and equipment used by the U.S. Department of Defense, has just received a \$795,924 grant from the department to continue operations and expand its services.

And CUFAN, the Clemson University Forestry and Agricultural Network, will begin offering South Carolina farmers ready access to a commodity increasingly essential to their economic survival -- up-to-date information on topics such as weather, insects and diseases, cash market and futures prices -- this summer.

Network subscribers can obtain information or "talk" with other subscribers by using a modem that links one microcomputer to other microcomputers or to a main computer at Clemson through telephone lines.

The TECNET grant brings total funding for that project to more than \$3 million.

TECNET initially was designed to give researchers working on similar projects at different locations with different computers a means of instant communications. But it has grown into a full-service resource offering electronic mail, scheduling assistance, bulletin boards and special-interest publications.

"Now that we've built the basic network mechanism, it's not difficult to add new features quickly," said Ed Page, professor of computer science.

"We've pretty much been given a free hand by the Defense

Department to identify and propose new network services."

More than 600 government and university researchers at 80 U.S. sites are linked to TECNET.

CUFAN was conceived about two years ago as a way to provide faster delivery of Extension Service information to clients and to speed communications between the 46 county offices and the campus.

Installation of equipment began

(Continued on page 3)



The Clemson University Newsletter is published for Michael Roberts, Extension computer technician, and for all members of the faculty and staff by the Division of University Relations.

University Newsletter Editor Deborah M. Slice
Acting Director, News Services ... Catherine Sams

We welcome your comments and suggestions. Call us at 656-4989 or write us at 103 Fike Center. DEADLINE is Dec. 19, noon, for Jan. 7 issue.

Computers, cont.

early this year and as of Nov. 14, 33 of the 51 off-campus network locations have special telephone lines dedicated solely to computer data transmission, said Jerry Lambert,

agricultural engineer and computer coordinator for the College of Agriculture.

"When the system is completed, the database is well-stocked by all the departments at Clemson and the bugs are worked out, we'll be ready to set a subscriber fee and accept

outside users," he said.

Subscribers will have access to information in 10 categories: weather; economics; plants; animals; engineering; food; home, family and youth; community development; marine; and notes, calendars and news.

University welcomes 60 new employees

The University welcomes these new employees who joined Clemson in September, October and November.

School of Accounting: Kerry Harper (clerical specialist).

Administrative Programming Services: Linda Montgomery (computer programmer).

Admissions and Registration: Carleatha Benson (administrative specialist).

Agricultural Economics: Janice Tuten (data management and research analyst).

Agricultural Education: Marie Clarke (administrative specialist).

Agricultural Engineering: Curtis Weller (assistant professor).

Animal Science: Debbie Neubauer (agricultural science assistant), Sandra Treadwell (administrative specialist).

Biological Sciences: Mary Powers (research associate).

Bookstore: Aimee Pena (clerical specialist).

Chemical Engineering: Sandra Lusk (word processor operator), Scarlett Nimmer (clerical specialist).

Chemistry: Charlotte Evatt (word processor specialist).

Clemson House: Efrem Earle (custodial worker).

Computer Center: John Crawford (systems programmer), Donald Logan (computer operator).

Computer Science: William Hollis (instructor).

Dairy Science: Lena Kelley (agricultural science associate), Dixon Lee Jr. (associate professor and department head), Rebecca Smith (clinical lab technician).

Development Office: Ann Smith (alumni/development manager).

Edisto Research and Education Center: Richard Hallman (agricultural science assistant), Dan Robinson (agricultural science associate), Kathy Thomas (administrative specialist).

Electrical and Computer Engineering: Teresa Schiazza and Peggy Forberg (administrative specialists), Dan McAuliff (visiting instructor).

Elementary and Secondary Education: Russell Marion (assistant professor), Mary Polen (administrative specialist).

Extension Service: Lana Tietjen and Eric Wilson (county agent assistants).

Fertilizer Inspection and Analysis: Camillus Lay (entomologist).

Financial Aid: Gloria Records (administrative specialist).

Food Science: Judith Mounter (administrative specialist).

Forest and Recreation Resources: Terese Walsh (instructor).

History: Mary Usher (administrative specialist).

Horticulture: John Bodiford (agricultural supervisor).

Housing: Nancy Knutson (key entry and peripheral equipment operator), Geraldine Peppers and Terri Revis (custodial workers).

Information Systems Development: Susan Campbell (programmer analyst).

Library: Deana Astle (head of technical services), Dennis Taylor (archivist).

Marketing: Robert Staaf (marketing and economics professor).

Nursing: Ruth Culpepper (clinician),

Sue Leopard and Jean Reece (administrative specialists), Theresa Eldridge (visiting assistant professor).

Parks, Recreation and Tourism Management: Jane Boos (key entry and peripheral equipment operator).

Plant Pathology and Physiology: Robert Haygood (assistant professor), Wickes Westcott (visiting assistant professor).

Office of the Provost and Vice President for Academic Affairs: Laura Westra (research associate and assistant professor).

Physical Plant: Robert Callahan (vehicle operator), Thomas Connally and Van Hawkins (trades helpers), Scott Rogers (trades worker).

Psychology: Pamela Rivers (word processor operator).

Strom Thurmond Institute: Julie Craig (public information specialist).

Student Health Center: Joan Coleman (administrative specialist).

University Research: Marsha Carson (clerical specialist).

University Union: Lorrie Woods (student services specialist).

Four staff members in the Office of Business and Finance have been named departmental employees of the month for October.

They are Lucy Arthur, personnel assistant in the Personnel Division; Ken Burgess, insulation mechanic in the Physical Plant; and Cindy Hadlock and Janice Weaver, administrative specialists in the financial management department.

Dr. Schaffer collecting old photos for Centennial project

Book to illustrate Clemson's yesterdays

"Now comes the labor and anxiety of erecting the college buildings and establishing the college.

"Think of going into the woods and organizing forces to complete what will be the finest college in the South."

This "vision" was recorded by one of Clemson's original trustees, Col. R.W. Simpson, in a letter to his sister Mary in 1890.

History Professor Alan Schaffer

plans to use that excerpt of the letter in the introduction of his book, "Visions: Clemson's Yesterdays," a pictorial history of the University.

What better way is there to celebrate the University's Centennial -- a Centennial with the theme "Tradition and Vision" -- than to publish a book of photographs showing men and women at work making Simpson's vision a reality.

"What I'm trying to do with the

book is show images of Clemson University in the past, and in doing that I want to show what this place was all about at different times," Schaffer said.

In addition to pictures, Schaffer will include in the book other things that might be interesting to readers.

"For example," he said, "very few people have ever seen Thomas Clemson's will. I'd like to reproduce it or at least a part of it, in the book.

"There are old maps I want to print and I even found a scholarship examination from 1921."

Schaffer, Cooper Library special collections librarian Michael Kohl, ne library archivist Dennis Taylor, and history graduate student Fara Driver are gathering photos and information for the book, which is expected to be published during the University's 100th anniversary celebration in 1989.

"We've been working on it full time the past two summers and this semester, but we've been talking about starting it for a long time," Schaffer said.

Schaffer and Kohl have found pictures and old records in the library archives, communications center file and boxes upon boxes of records from past Taps and Tiger staffs and other University departments.

"I was called several months ago by someone at the Holtzendorff YMCA who had heard I might be collecting pictures," Schaffer said.

"She told me there was a room downstairs filled with old stuff.

"I ran down there and saw a room about the size of my office crammed to the ceiling with papers and other stuff. I noticed old ledgers and accounting books poking out here and there, and I could see photographs mixed in with junk.

"I left, called Michael to go salvage what he could, and by the time he and his staff got down there, people were throwing it all in a dumpster.

"Michael and the others had to go



Clemson students are dressed up for a field trip (left). It isn't known whether they are on campus or off. The picture was taken in the early 1900s.

Firemen battle the blaze in Sikes Hall (below) on April 2, 1925. The fire destroyed much of the building's interior.





Extension Service agents gather in front of the Clemson agricultural train around 1906. The train carried agents to county offices across the state to conduct workshops and to provide farmers access to the college's resources.

to the dumpster and throw everything back out -- in the middle of downpour."

Part of this whole project is making people aware that old records, even if they are not useful to one particular person, are part of the history of the school and have to be preserved, Schaffer said.

"At least people who are knowledgeable must be given the opportunity to say, 'Yes, this should be preserved.' It's not a decision that anybody can make."

He said gathering old photos and information from on campus is not all that difficult to do. The problem is finding everything else out there that is waiting to be discovered.

He has written letters about the project to the 44,000 alumni, including past Tiger and Taps staff members, and to newspapers across the state.

Many responses already have come in.

"I got a call from an alumnus who

was coming to town for Homecoming. He said he would fill his car with photographs and bring them for me to see," Schaffer said.

"I asked him exactly how many he had, and he said about 400 to 1,000.

"He said, 'I don't remember taking a lot of classes, but I took a lot of pictures!'"

Schaffer is not looking just for beautiful pictures, but for pictures that will help identify things that happened at Clemson -- people, buildings and events.

"People don't think of an old snapshot as being that useful, but it might have in the background the only existing picture of an old building.

"That snapshot then becomes priceless," he said.

Schaffer and Kohl's collection includes pictures of original trustees; early buildings; faculty, including the first female librarian; campus events and ceremonies; and students in all forms of dress from military uniforms in

the early days to beads and bellbottoms in the '60s.

"We haven't found many photographs from the 1930s and 40s," Schaffer said.

He hopes some will turn up.

Besides pictures, Schaffer also is getting quite a collection of old records.

"Working on a project like this book helps to turn up an enormous variety of fascinating information, not just photographs," Schaffer said.

"It's almost like detective work. You never know what you're going to find next."

He said that no University employee should throw away any old records until checking first with Kohl or records manager Kerry Strong in Cooper Library.

"Photographs, accounting books, official documents, and even letters and memos are valuable sources of information," he said.

"They're all part of the history of Clemson University."

Clemson accountants tell how

New tax laws will affect everyone

How will the new income tax bill affect us?

Nobody really knows, say Thomas Dickens, Stephen Cash and Ray Gray, associate professors of accounting in the College of Commerce and Industry.

"We hear a lot of comments that we'll be paying less taxes now because the tax rates have been lowered," Dickens said. "But we've got to be 'taxpayer specific.' Each individual situation will be different."

The bill, signed by President Reagan in October, will cut taxes for most workers while paring some deductions and boosting the burden on businesses.

Most of the main elements of the law, including lower rates and abolition of many deductions and other tax advantages, will go into effect Jan. 1 and will be reflected in taxes due April 15, 1988.

"Families with two wage-earners may not find the new tax laws favorable at first, particularly if they're in the upper-middle income group," Cash said.

Many people, especially those with incomes of more than \$50,000 a year, will owe slightly higher taxes in 1987 as the new rate structure is being phased in, he said.

Beginning in 1988, however, most taxpayers at every income level probably will pay less than they would if the law had not been changed.

"What it amounts to is that Congress cut rates on one hand, but cut out deductions and loss provisions on the other hand," Cash said.

"The attempt was to lower taxes for individuals and raise them for businesses, but it's hard to say how an individual will be affected.

"Many faculty and staff members here own small businesses or have invested in real estate tax shelters," he said. "Tax advantages for these

people have been taken away, and it looks like they will be hurt the most by the new laws."

Cash said that people who have invested in tax shelters will get only a certain percentage of the excess losses next year and a lesser percentage the next year, until the advantage is phased out completely.

"The benefits of lower tax rates and higher exemption and standard deduction figures won't become fully effective until, at the earliest, 1988," Dickens said. "And yet deduction privileges are gone now.

"That's what makes a lot of this unpredictable."

Gray said there are ways to soften the blow of having most of your tax advantages taken away.

"The hottest thing in tax shelters today is the development of the 'master limited partnership,' a financing gimmick that will counteract the loss of present shelter benefits," he said.

"The partnerships are designed to make money and increase cash flow, instead of to lose money and increase the amount of deductions."

More restrictions have been placed on claiming deductions for IRA and tax-deferred annuity plans, employee expenses such as journal subscriptions and society membership dues, and medical expenses.

"Most people who have done tax planning in the past will need to talk to their tax advisers before Dec. 31," Cash said.

"There may be some things you can do now for the last time because of the changes.

"Some people might want to prepay some expenses, like dues and subscriptions, and defer any income until next year if possible," he said.

Gray said it would be a good idea to pay for any item that can be paid for by Dec. 31 and deducted under 1986 tax laws.

"You can make all of next year's

charitable contributions in advance before the 31st.

"For instance, if you donate appreciated property now, such as stock or land, you can escape taxation of that property.

"Next year, gifts of appreciated property will be considered tax-preference items and may be subject to a stiff minimum tax," Gray said.

Also, new W4 forms should be filed before Oct. 1 to avoid having too much money withheld from each paycheck, Dickens said.

The three accountants said that even though federal taxes will go down for most individuals, state taxes probably will go up.

"Since we're losing deductions and other ways to keep our taxes down, our gross taxable income will go up," Cash said.

"If the state doesn't lower its tax rates to offset the loss of deduction we'll pay more state taxes.

"This probably was intentional to offset the loss of revenue from people at low income levels being knocked off the tax rolls," he said.

Dickens said social security taxes will be going up as well. With increased state and social security taxes, the decrease in federal income taxes may not have much of an effect on our paychecks, he said.

When most provisions are fully in effect in 1988, individual taxes will cut an average of 6.1 percent -- about \$4 a week -- according to Associated Press reports.

More than 20 million couples and individuals will pay more, and more than 6 million families will be taken off the income tax rolls.

See the next page for more information on the new tax laws.

How the New Tax Laws Will Affect Us

Provisions that affect individuals

tax cuts	Most taxpayers will get a tax cut averaging 6.1 percent, starting gradually in 1987 and fully in effect for 1988. Several million couples and individuals will pay more, including perhaps one-third of those with incomes between \$30,000 and \$40,000.
rates	In 1987, rates will range from 11 percent of taxable income to 38.5 percent. Starting in 1988, three-quarters of taxpayers will pay only a new bottom rate of 15 percent. Singles with taxable income above \$17,850 and couples with taxable income above \$29,750 will pay 28 percent. Couples whose taxable income exceeds \$71,900 and singles above \$43,150 will pay 33 percent.
exemptions	Now \$1,080 per taxpayer, spouse and dependent, this will rise to \$1,900 in 1987, \$1,950 in 1988 and \$2,000 in 1990; afterward, it will be adjusted each year for inflation. The blind and elderly lose their extra exemptions. Also, dual exemptions for children under 19 no longer are allowed.
standard deductions	In 1988, couples get \$5,000, singles \$3,000 and heads of households \$4,400.
deductions	Kills deductions for state and local sales taxes; consumer interest, such as credit cards or car loans; and the special write-off for two-earner couples. Tighter restrictions have been placed on deductions for medical and employee expenses. Eliminates charitable deductions for non-itemizers.
retirement accounts	Keeps current IRA law for those not covered by company pensions and for those whose income is \$25,000 or less for singles and \$40,000 or less for couples. Those not qualified for a deductible IRA can deposit up to \$2,000 a year and the interest could build up tax-free until withdrawn. Penalty for early withdrawal is higher.
tax shelters	The amount a college employee can voluntarily set aside through a tax-deferred annuity plan will be reduced to \$9,500 a year. Most investment losses — generated by big depreciation deductions — cannot be used to shield wages from taxation.

Provisions that affect businesses

tax rates	Top corporate rate of 46 percent will drop to 34 percent. Small businesses will pay as little as 15 percent.
investments	Investment credit for the purchase of machinery and equipment has been repealed. Depreciation is similar to present law but less generous to buildings and more beneficial for most equipment.

Provisions that affect colleges

charitable contributions	Lower tax rates will reduce the benefits taxpayers receive from charitable giving. Taxpayers who itemize can still deduct the full amount of their contributions, subject to present limitations based on adjusted gross income. Those who do not itemize cannot.
research	A new type of tax credit allows companies to write off the costs of sponsoring research projects at universities. The present credit does not provide any special incentive for sponsoring campus research.
business expenses	Deductions for the leasing of "skyboxes" in stadiums will be phased out gradually.

Announcements

PKP fellowships available

Faculty members are urged to encourage students to apply for Phi Kappa Phi fellowships.

Malcolm Usrey, associate professor of English and chairman of the Phi Kappa Phi Fellowship Committee, said the Clemson chapter is accepting applications until Jan. 30.

Fifty \$6,000 fellowships will be awarded nationwide for first-year graduate or professional study. Thirty students will receive honorable mention awards of \$500.

Criteria for selection include scholastic achievement, high standardized test scores (when applicable), participation in honors and enrichment programs and extracurricular activities, promise of success in graduate or professional study, leadership, evaluation by instructors and expression of study plans and career goals.

Graduating seniors should contact Usrey at 314 Strode Tower, 656-5414, for more information.

Since 1972, seven of the 12 students who have applied for Phi Kappa Phi fellowships have received them. Five of those seven have been awarded in the past six years.

Phi Kappa Phi is the only major national scholastic honor society which recognizes academic excellence in all disciplines.

Evers named outstanding professional

Dee Evers, assistant professor and director of continuing education in the College of Nursing, was named 1986 Outstanding Professional at the annual conference of the South Carolina Association of Higher Continuing Education.

Evers, who has been at Clemson five years, was responsible for developing the school nurse-practitioner program to upgrade the

skills of student nurses.

Under her direction the continuing education program has grown steadily, offering more than 50 workshops and seminars to about 2,000 nursing professionals each year.

The Outstanding Professional Award is the highest honor given by SCAHCE, a statewide organization of continuing education professionals.

Allen receives forestry service award

Robert Allen, forestry professor here since 1966, has been named the recipient of the 1986 Charles H. Flory Distinguished Service Award for outstanding contributions in forestry education and research.

The award is presented annually by the South Carolina Forestry Association in honor of the first president of that organization.

Allen served as head of the Clemson forestry department from 1970 to 1982 and worked toward the establishment of the Belle W. Baruch Forest Science Institute.

Police arrests three youths, recovers stolen property

University police arrested three youths the week of Nov. 17 and filed a variety of charges against them in connection with a semester-long series of thefts from offices and dormitories.

Police have not been able to locate owners of much of the property recovered. The items are being held at the University police department and can be claimed by owners with proper documentation.

Most of the thefts occurred in Johnstone Hall and in Tillman Hall classrooms and offices, said Jim Brummitt, chief investigator.

Celebrate Christmas at Hanover House

Historic Hanover House will celebrate Christmas with a candlelit drop-in Friday (Dec. 12) from 5 p.m. to 9 p.m.

Decorations of the colonial period will be featured, and refreshments will be served.

Hanover House, an 18th-century French Huguenot home, was built in the South Carolina lowcountry and moved to Clemson in the 1940s.

The house is located on South Palmetto Blvd. across from Lever H

For more information call the Visitors Center, 656-4789.

4-H volunteers needed in three area counties

Volunteers are needed to lead 4-H Clubs in Pickens, Oconee and Anderson counties, said Carol Webb Extension Service program leader.

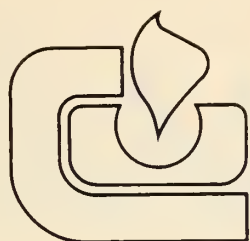
Call Bob Spalding, 868-2810, to volunteer or enroll a child in the Pickens or Oconee 4-H programs, or Janet Ensor, 226-1581, for the Anderson County program.

Sponsored by the Extension Service, 4-H provides organized educational programs and events for youth ages 9 through 19. Program subjects include agriculture, home economics, computers, photograph citizenship and others.

Traffic study plans approve

The state Budget and Control Board has approved plans for a \$30,000 project to find ways to improve traffic flow in Clemson.

Conducted by the University and the city of Clemson, the transportation study should start early next year and take about a year to complete, said University master planner Mark Wright.



Events

INFORMATION FOR THE FACULTY AND STAFF OF CLEMSON UNIVERSITY

This calendar is prepared up to a month in advance. Please send in writing to the MASTER CALENDAR EDITOR, Trustee House, any campus event that should be listed. You also may call 656-3862 to check the UNIVERSITY MASTER CALENDAR for possible scheduling conflicts. (Call the number listed in each entry for more information.)

DEC 10 1986

December 12 - 19

- 12 **Insurance meeting for S.C. state retirees.** 11 a.m., Tri County Technical College.
(S.C. Retirement System, 656-2000)
- 12 **Candlelight drop-in at the Hanover House.** 5-9 p.m., Refreshments will be served.
(Visitors Center, 656-4789)
- 13 **Women's Basketball: Baptist College.** 3 p.m., Littlejohn Coliseum. (656-2101)
- 16 **Men's Basketball: Prairie View A&M.** 7:30 p.m., Littlejohn Coliseum. (656-2101)
- 17 **Men's Basketball: Armstrong State.** 7:30 p.m., Littlejohn Coliseum. (656-2101)
- 17 **Women's Basketball: N.C. State.** 5 p.m., Littlejohn Coliseum. (656-2101)
- 17 Last day to preregister for spring semester.
- 17 **General Faculty and Staff Meeting** and presentation of Public Service Award. 10 a.m.,
Tillman Hall Auditorium. (Academic Affairs, 656-3243)
- 18 **Commencement.** 11 a.m., Littlejohn Coliseum.
- 18 **Meeting: Institute of Industrial Engineers.** 7 p.m., 300 Riggs Hall, open to the public.
(656-2703)
- 19 University housing closes at 8 a.m.

Continuous YMCA-sponsored classes in women's and men's fitness, youth fitness, aerobics, exercise, Jazzercise, social dancing, Middle Eastern dance, swimming, gymnastics, lifesaving and after-school day-care programs. (656-2460)

THE HISTORY OF THE

REIGN OF

CHARLES THE FIRST

BY

JOHN BURNET

OF

SCOTLAND

IN TWO VOLUMES.

LONDON,

Newsletter

Vol. 26, No. 16

Dec. 17, 1986

Information for the Faculty and Staff of Clemson University

Briefly...

Pin for retirement Jan. 28

Employees eligible for retirement, their spouses and other interested persons can attend a special retirement planning session Jan. 28.

Sponsored by the Personnel Division, meetings will be held at 9:30 a.m. and 1 p.m. in the Senate Chambers.

Individual S.C. Retirement System benefit estimates will be distributed to those who request them through the Personnel Division before Jan. 5.

Scheduled to speak at the meetings are representatives from the retirement system, the Social Security Administration and the Payroll and Employee Benefits Office here.

"Because of the new legislative amendments regarding retirement and the recent addition of HMOs to our insurance package, we encourage anyone considering retirement in the near future to attend," said Debbie King, personnel assistant.

Call King at 656-3367 for more information.

Order Taps before Jan. 26

Complimentary copies of the yearbook Taps no longer will be distributed to each department.

Faculty and staff members who want to order Taps should call the Office of Student Life, 656-2153, for more information.

Kirk Brague, associate dean of student life, suggests you get your order in soon. After Jan. 26, the cost of the book will increase from \$18 to \$25, and supplies are limited.



PRESIDENT

DEC 17 1986

Dear Colleagues,

For the coming holidays, Ruth and I extend to you warm wishes for a safe and happy season of rest and renewal. The welcome, friendship and support you have given us since we joined you last spring will make this an especially significant holiday for us. We have been impressed by the hard work and dedication of the faculty and staff, and we are very proud to be a part of this fine institution.

The new year will hold new challenges and new possibilities for Clemson University. It will be an exciting time to be here, and every member of the faculty and staff can play a role in making it a successful time. We look forward to continuing to work with you in service to the people of South Carolina and for the advancement of higher education.

Sincerely,

Max Lennon



University looks for ways to handle latest budget cuts

Detailed budget reports compiled by University departments are being reviewed by the administration in an effort to find ways to handle a state budget cut of 2.6 percent for this fiscal year and an even greater shortfall for 1987-88.

Changes in the state's formula for funding colleges and an additional 4.8 percent across-the-board budget decrease for all agencies leave Clemson looking at a total reduction for next year of about 7.8 percent in the instructional budget.

In the public service area, the outlook is for a 4.8 percent state funding reduction and possibly additional cuts in federal funding.

"The University will develop specific actions to meet the budget reductions," said David Larson, vice president for business and finance.

"Many members of the campus community, including faculty, staff and students, will be involved in a campus-wide budget assessment.

"Proposals will be considered regarding revenue enhancements, more cost-efficient approaches to delivering certain services, and program reductions," Larson said.

Clemson is facing about \$1.5 million in new cost items that won't be covered by the state, bringing the total shortfall to about \$8.2 million.

"We'll have to look for ways to save in a variety of program areas. The \$8.2 million will have a permanent impact on our budget," Larson said.

"It's hard to handle permanent cuts with temporary solutions, such as a hiring freeze. It will be necessary for departments to look at reductions in personnel, equipment, permanent improvements, travel, contracted services, and supplies, which will quite obviously require a detailed look at program priorities," he said.



Thomason



Wells



McDaniel

Board of Visitors names three new officers

Greenville business executive William P. Thomason is the new chairman of the 31-member Board of Visitors, the university's top public advisory group.

Thomason, a Laurens native, is president of Aid-in-Management Inc., a subsidiary of Builder Marts of America, of which he is vice president. He was named to the one-year chairmanship during the board's fall meeting at Clemson.

Other new officers are Dr. John A. Wells of Columbia, who was named vice chairman, and Don R. McDaniel Sr. of Bishopville, secretary-treasurer.

Thomason earned an electrical engineering degree here in 1958.

He has served as assistant to the IBM chairman and president and held several positions with IBM's Americas/Far East subsidiary, including responsibility for its business in Japan.

Wells has a private practice in ophthalmology and ophthalmic surgery and is a former chief of staff at Richland Memorial Hospital in Columbia.

McDaniel operates a family farm partnership with his son. In 1985 the McDaniel family received South Carolina's most prestigious agricultural award, the Master Farm Family the Year Award from Clemson University Extension Service and Progressive Farmer magazine.



University Newsletter Editor Deborah M. Slice
Acting Director, News Services ... Catherine Sams

The Clemson University Newsletter is published for Eloise Hamilton, Housing's custodian of the month for September, and for all members of the faculty and staff by the Division of University Relations.

We welcome your comments and suggestions. Call us at 656-4989 or write us at 103 Fike Center. DEADLINE is Dec. 19, noon, for Jan. 7 issue.

Music department gets new organ

Lawrence Reese is a different kind of organ donor.

His gift doesn't pump blood or restore sight, but it will bring a grateful smile to many fortunate recipients for years to come.

Reese, a 1930 graduate of Clemson, has donated a Lowrey Theatre Console Organ to the University in memory of his first wife, Elizabeth Smith Reese.

"I've always had a warm spot in my heart for Clemson," said the Ft. Meyers Beach, Fla., resident. "So when I found out they were looking for contributions to the (Robert and Lilian) Utsey Chamber Series Endowment, I thought this would be a good way to help."

Although the organ itself is valued at \$20,000, Reese's donation is worth much, much more, said John Butler, head of the music department.

"This is an extremely important instrument in many productions, and one we didn't have," Butler said. "Many times we've had to move concerts off campus to area churches because we've had no accompaniment for the performers. Now, however, that's a problem we'll be able to correct."

The organ, housed in Tillman Hall Auditorium, will be used for various campus events such as choral presentations and beauty pageants and even will allow the music department to schedule a brass and organ concert.

Did you know?

Sid Hays, entomology professor and department head, was the second person to receive a Ph.D. at Clemson. He graduated in 1962 with a doctorate in entomology.

The first to earn a Ph.D. here was Don Peterson, former professor in plant pathology.



Sen. Strom Thurmond admires the pecan crop at Clemson's Sandhill Research and Education Center near Columbia. Explaining the harvest is Jimmy Golden, left, resident director of the agricultural facility. Thurmond toured Sandhill Nov. 28.

Grants and contracts exceed \$10 million

In the fiscal year 1985-86, faculty members were awarded a total of \$11,141,625 for grants and contracts.

According to a report prepared in September by the offices of the Assistant Vice President for Budgets and Planning, Grants and Contracts Services and University Research, approximately 60 percent of the grant and contract proposals submitted by University faculty last year were funded.

The bulk of the 267 awards were sponsored by federal agencies, followed by industry and the state.

The four colleges that brought in the most funding for research are Agricultural Sciences, Engineering, Sciences and Forestry and Recreation.

The "top ten" departments last year, ranked by the total funding received from grants and contracts, are:

1. Electrical and Computer Engineering	\$906,350
2. Biological Sciences	844,839
3. Chemistry	722,796
4. Forestry	629,956
5. Agricultural Economics and Rural Sociology	430,673
6. Computer Science	401,056
7. Civil Engineering	377,006
8. Environmental Systems Engineering	359,725
9. Mechanical Engineering	342,704
10. Physics and Astronomy	315,217

Forester tells how to keep Christmas trees safe and fresh

Natural and artificial Christmas trees can be kept safe as well as great looking this holiday season by following a few simple precautions, said an Extension Service forester.

"The key to maintaining a safe natural tree is to keep it as fresh as possible before and after trimming," said George Kessler.

Before trimming, Kessler recommends sawing off an inch of the stump and placing the tree in a bucket of water to allow better absorption. The tree should be kept in a cool, wind-sheltered place and watered daily.

When ready to trim, trees should be placed in water-holding stands and

filled daily above the bottom of the stump and kept filled so the bottom of the stump is never out of the water. Trees should be located away from heat sources such as radiators, wood stoves, air ducts and especially open flames such as fireplaces or candles.

Extension cords and light sets should be checked for cracked insulation, frayed wires and damaged sockets. Only Underwriters Laboratories approved lights should be used.

Kessler said it's important not to overload single electrical circuits and to remember to turn off strings of lights before leaving home or going to bed.

Check growers list for good buys on Christmas trees

If you're looking for a good place to buy a Christmas tree this year, check the 1986 Christmas Tree Growers List published by the S.C. Christmas Tree Growers Association.

"The list, available at Clemson Extension Service offices in each county, contains information on choose-and-cut operations in each county throughout the state," said Jimmy Golden, secretary of the 250-member organization and resident director of the University's Sandhill Research and Education Center in Columbia.

He said the publication will be very helpful for those looking for good buys on good trees, or for those who would like some information on getting started in the business.

Owner and operator of the 50-acre Golden Christmas Tree Farm in Elgin, Golden said Virginia pines, white pines and traditional red cedars are favorites among South Carolinians, although a new up-and-coming Christmas tree, the Leyland cypress, is quickly catching up.

"It can be grown anywhere except the mountains and is ideal for the Coastal Plains because it will last longer in the warmer climate than the firs and spruces of the Upstate," he said.

"I expect they will become very popular within the next five years."

There are no secrets to growing Christmas trees, he said, only dedication and hard work.

"Every year we have about a hundred growers join the association and the same number drop out," he said.

"People get into the business, thinking that they can stick some trees in their back yards and make some money at Christmas time. They don't realize that it takes an awful lot of work year-round to produce those trees and about seven years to realize a profit."

Clemson video helps recruit students

Clemson has taken advantage of the home video trend to strengthen its recruiting of academically strong students.

As part of its aggressive program aimed at recruiting the nation's top students, this fall the University began offering videotapes of Clemson for home viewing to selected high school students.

Admissions director Richard Mattox said he first heard of the idea at a conference two years ago, and decided to start a program here.

"I feel it gives a real sense of the 'flavor' of Clemson, and adds a personal touch," he said.

Students requesting the tape are mailed a copy from the Admissions Office library.

The student then can pop it into a home video recorder, settle back and watch a 13-minute overview of the campus and the academic and social life at Clemson.

To date, of 600 high school seniors offered the tape, more than 150 have asked to borrow it.

Group starts building science endowment

With an eye on the future of their industry, a group of construction professionals is building an endowment to help educate building science students at Clemson.

The group, chaired by Clemson alumnus and construction executive C. Douglass Harper of The Harper

Corporation in Greenville, hopes to raise at least \$250,000 over the next three years.

The money will be used to enhance the undergraduate building science program and to help establish a professorship in the new master's program.

Departmental notes

Agricultural Economics and Rural Sociology

C.E. Curtis (Asst Prof) presented an invited paper to the Southern Regional Book Conference in Atlanta.
M.S. Henry (Prof) published "A Changing Rural America" in *Economic Review*, published by the Federal Reserve Bank of Kansas City. Henry also chaired a session, "Rural Labor Markets," at the American Agricultural Economics Association meeting in Reno, Nev.

Aquaculture, Fisheries and Wildlife

D.L. Robinette (Prof and Head) was selected to serve on the Service/Extension Committee for the Association of University Fisheries and Wildlife Program Administrators.

Animal Science

T. Gimenez (Assoc Prof) was a guest lecturer at the University of Hohenheim's Institute of Animal Husbandry and Animal Breeding in Stuttgart, West Germany, Nov. 28 - Dec. 10. There, he conducted seminars on pig and cow reproduction and demonstrated surgical techniques.

Biological Sciences

A.G. Abbott (Asst Prof) gave a talk, "Comparative Transcriptional Analysis of the Different Coding Regions in the Cist Unique Reading Frame Between F10 and CmsT," at the workshop on higher plant DNA sponsored by the International Society of Plant Molecular Biology.

C.S. Brown (Prof) gave a seminar, "Hemoglobin Drugs," to biology students and faculty at Davidson College.

R.H. Hilderman (Assoc Prof) gave a seminar, "The Role of Amino Acyl tRNA Synthetases in Cell Metabolism," to chemistry students and faculty at the College of Charleston.

D.W. Tonkyn (Asst Prof) presented "Dispersal of Insects in Simple and Diverse Vegetation" at the NATO Advanced Research Workshop in Numerical Ecology in France. Tonkyn published this year "Predator-mediated Mutualism: Theory and Tests in the Hymenoptera" in *Journal of Theoretical Biology*, "The Statistical Analysis of Size Effects" in *American Naturalist*, and "Population Gender Variation in

Common Ragweed (Asteraceae: *Ambrosia artemisiifolia* L.), a Monoecious, Annual Herb" in *Oecologia* with M.J. McKone (Univ. of Canterbury).

G.L. Powell (Prof) presented a poster, "The Lamellar Phase of Cardiolipin Is Stabilized by the Transbilayer Protein Cytochrome C Oxidase," at the annual Regional Lipid Conference in Cashiers, N.C. Powell gave a seminar, "Cardiolipin and Heart Cytochrome C Oxidase, or, Are Four Greasy Arms Better Than Two?" to the biology department at Furman University.

J.K. Zimmerman (Prof) gave a seminar, "Designer Genes," to chemistry students and faculty at Bob Jones University.

Building Science

S. Schuette (Assoc Prof) presented "The Use of Computers in Construction Education" at the Regional Meeting of the Associated Schools of Construction in Atlanta.

Chemistry

These papers were presented at the Southeastern Regional Meeting of the American Chemical Society in Louisville, Ky.:

-- "Electrophilic Substitution in Arenachromium Tricarbonyls" by **A.R. Pinder** (Calhoun Prof) and **J.L. von Rosenberg** (Prof).

-- "Synthetic Studies in Alkaloid Chemistry: A Synthesis of Normearsine" by Pinder and **J.R. Crouse** (Grad Stu).

-- "The Total Synthesis of Balanitol" by Pinder and **T.A. Anglea** (Grad Stu).

-- "Spin-Echo, 1-D, and 2-D NMR Studies of the Phenylchloroarsine Adduct of Glutathione in Solution and Intact Erythrocytes," by **K. Dill** (Assoc Prof), written with **E.R. Adams** (Grad Stu), **E.L. McGown** and **R.J. O'Connor** (Letterman Army Institute of Research).

-- "13 C-NMR Study of the N-Terminal Portion of Glycophorins" by Dill, written with **R.D. Carter** (Grad Stu).

At the American Chemical Society Meeting, Dill organized a symposium on "NMR in Medicine and Biology."

Dill presented a seminar, "Natural Abundance 13 C-NMR Studies of Glycoproteins," at the National Institute of Environmental Health Sciences at the

N.C. Research Triangle.

D.D. DesMarteau (Prof and Head):

-- presented "Some Recent Developments in Non-Metal Fluorine Chemistry Via Elemental Fluorine" and chaired a session at the International Symposium on the Centenary of the Discovery of Fluorine in Paris.

-- presented "New Developments in the Chemistry of Fluorinated Carbon-Nitrogen Compounds" at the Central Research Laboratories of Montefluos in Milano, Italy.

-- presented invited lectures at the University of South Carolina and Memphis State University on "Novel Fluorochemicals."

-- hosted the Gas Research Institute Contractors Meeting on Advanced Fuel-Cell Electrolytes here Oct. 16-17. Research at Clemson supported by GRI shows some nitrogen acids may improve the efficiency of commercial fuel cells.

-- received two research grants: \$50,574 from E.I. DuPont de Nemours and Co. for research on "Selective Aromatic Fluorination Via N-fluorosulfonimides," and \$41,000 from Montefluos, Sp.A., for "Functionalized Hypohalites."

-- had a \$26,000 grant from Montefluos renewed for a second year of research on "Chemistry of Fluorinated Monomers for Polymer Synthesis."

Civil Engineering

P.B. Zielinski (Prof) gave a talk, "Physical and Economic Impacts of the 1986 Drought in South Carolina," at the Florida Water Districts' annual meeting in Tallahassee. Zielinski also was elected secretary-treasurer of the National Association of Water Institute Directors.

Dairy Science

B.F. Jenny (Prof) received a \$43,690 grant from American Cyanamid Co. to study the efficacy of recombinant bovine somatotropin in lactating dairy cows.

Electrical and Computer Engineering

J.W. Lathrop (Prof) presented "Accelerated Stress Testing of Commercial a-Si:H Solar Cells," written with **C.W. Davis** (Grad Stu) and **E.L. Royal**

(Continued on page 6.)

notes, continued.

(Jet Propulsion Lab), at the 7th European Photovoltaic Solar Energy Conference in Seville, Spain.

Elementary and Secondary Education

G.F. Elrod (Vstg Asst Prof) presented "A Survey of Vocational Educators' Perceptions of Academic and Social Skills That Are Prerequisite to Success in Vocational Training: Implications for Vocational Special Needs Education" at the Council for Exceptional Children's division on career development Midwest Regional Conference in Kansas City.

J. Walker (Prof) and former colleagues **G. Jenkins** and **M. Woodson** published "A National Response to Academic Reform in High School and College Athletics" in Debate and Understanding. They also published "Implementing NCAA Rule 48: The Principal's Role" in NASSP Bulletin.

English

H.B. Bryant (Prof) published Robert Graves: An Annotated Bibliography.

R.J. Calhoun (Alumni Prof) was elected to a three-year term on the Executive Committee of the South Atlantic Modern Language Association.

J. Idol (Prof) reviewed The Letters of Nathaniel Hawthorne, 1813-1853 in Journal of English and Germanic Philosophy.

J.A. Overton (Vstg Instr) and **D.G. Brock** (Eastern Illinois Univ) published "A Study of the Development, Validation and Application of the Construct of Listening Reluctance" in Journal of the Illinois Speech and Theatre Association.

D.L. Shealy (Vstg Asst Prof) published "'Poor Jimmy's Knock': A Letter on the Death of James T. Fields" in The Nathaniel Hawthorne Review.

D. Tillinghast (Assoc Prof) published "Williams Lake, British Columbia, Canada" in Antigonish Review.

Experimental Statistics

P.M. Burrows (Prof) published "Variance Weighting Functions in Radioimmunoassay Calibration," written with **D.M. Henricks** (Prof, animal science) and **T.W. Gettys** (Vanderbilt Univ), in American Journal of Physiology.

History

J.L. Arbena (Prof) presented "Continuity and Change in the Argentine

Tango," a public lecture and musical program sponsored by the local chapter of Phi Alpha Theta, at the University of North Florida.

R.M. Golden (Prof) reviewed Repertoire des ouvrages de controverse entre Catholiques et Protestants en France (1598-1685), Louis Desgraves, ed., and Ritual, Myth and Magic in Early Modern Europe, William Mounter, ed., in Religious Studies Review.

J.R. Wunder (Prof and Head) reviewed U.S. Forest Service Grazing and Grasslands: A History by **W.D. Rowley** in Montana: The Magazine of Western History.

Horticulture

D.W. Bradshaw (Assoc Prof) and **L. Miller** (Campus Planning Office) visited several sites to prepare for development of long-range plans for the Horticultural Gardens and Forestry Arboretum: Mathaei, Denver, Birmingham and Georgia botanical gardens; Holden Arboretum; Carnell Plantation and Utah State Arboretum.

D.C. Coston (Prof), **T.E. Elkner** (former Grad Res Asst) and **J.G. Williamson** (Grad Res Asst) published "Mode of Action of Chemical Treatments for Peach Bloom Delay" in Acta Horticulturae.

Elkner and Coston published "Effect of Ba+Ga, and Daminozide on Growth and Lateral Shoot Development in Peach" in Journal of ASHS.

Williamson, Coston and **L.W. Grimes** (Prof, Experimental Statistics) published "Growth Responses of Peach Roots and Shoots to Soil and Foliar-applied Paclobutrazol" in HortScience.

Coston, **E.T. Sims Jr.** (Prof) and **R.E. Williamson** (Prof, Agricultural Engineering) published "Productivity of Peach Meadow Orchards" in Acta Horticulturae.

Sims participated in the Postharvest Horticulture Workshop held in conjunction with the 99th annual meeting of the Florida State Horticultural Society in Miami Beach.

Coston presented "Field Performance of Own-rooted Peach Scions" at the Fruit Tree Biotechnology Symposium sponsored by Moët-Hennessy in Paris. He also visited the International Society for Horticultural Science headquarters at the University of Wageningen in the Netherlands.

E.G. Denny (Ag Sci Assoc), Coston and **R.E. Ballard** (Assoc Prof, biological

sciences) published "Peach Skin Discoloration" in Journal of ASHS.

M.T. Haque (Assoc Prof) presented "Student Enrollment and Recruiting" at the S.C. Horticulture Society meeting in Columbia.

L.C. Miller (Prof) presented a lecture on recent research results with pre-emergence herbicides and spunbonds at the 20th Annual Clemson Turfgrass Conference.

W.L. Ogle (Prof), **H.D. Skipper** (Prof, agronomy and soils) and **L.S. Wamoch** (former Grad Res Asst) are leading the project, "Rhizobia and Mycorrhizae to Enhance Biological Nitrogen Fixation in Cowpeas," sponsored at Clemson and Egerton College in Kenya by the Agency for International Development and USDA.

J.D. Ridley (Assoc Prof) published "South Carolina Peach Quality" in The Mountaineer Grower.

Industrial Engineering

J.S. Greenstein (Assoc Prof) chaired sessions on "User Interfaces" and "System Modeling" at the 1986 IEEE International Conference on Systems, Man and Cybernetics in Atlanta.

E.A. Tunc (Vstg Lect) presented "Production and Workforce Planning in Multistage Production Systems" at ORSA/TIMS Joint National Meeting in Miami Beach.

Languages

M. Cranston (Prof, French) reviewed Das avantgardistische Theater Frankreichs 1985-1990 in The French Review.

P.R. Heusinkveld (Asst Prof, Spanish and French) published "Combating Cultural Stereotypes: A Practical Strategy" in Annual Proceedings of the Foreign Language Association of North Carolina.

Heusinkveld also presented:
-- the keynote address, "Cross-Cultural Differences and Their Effect Upon Inbound International Tourism," at this year's Hospitality and Tourism Invitational sponsored by the department of parks, recreation and tourism management.

-- an invited workshop, "Grammar and Free Conversation: The Odd Couple?" at the Foreign Language Association of North Carolina's annual conference in Winston-Salem.

H.M. Riley (Prof, German) presented "German Women Writers of the 18th and 19th Centuries" at the University of

Cambridge in England. Riley participated in the symposium, "Freud in London," sponsored by the University of London and the Austrian Institute.

J.M. Whitmire (Asst Prof, Spanish) presented "El Convidado," a Spanish play, at D.W. Daniel High School Oct. 8.

Management

J.K. Butler Jr. (Assoc Prof):

-- and **A.F. Czajkowski** (Assoc Prof)

"Leadership Style and Group

Performance: A Test of Two Models"

accepted for presentation at the 1986 Decision Sciences Institute meeting and for publication in the proceedings.

-- and **R.S. Cantrell** (Assoc Prof)

published "Cue Order in a Behavioral Design Theory Measurement Approach" in *Psychological Reports*.

-- published "A Global View of Informal Organization" in *Advanced Management Journal*.

-- and **W.P. Sineath** (Appalachian State Univ) presented "Effects of Group

Member Cognitive Characteristics on

Group Performance: A Simulated

Entrepreneurial Task" at the Southern

Management Association meeting. The

paper also was published in the

proceedings.

-- published "Reciprocity of Dyadic

Interactions in Close Male-Female Relationships"

in *Journal of Social Psychology*.

Mathematical Sciences

R. Jamison (Prof) attended a

conference on "The Geometry of Form

and Movement" in Dornach, Switzerland,

sponsored by the Mathematisches

Institut der Hochschule fur

Geisteswissenschaft.

J. Kenelly (Alumni Prof):

-- co-chaired a symposium,

"Calculators in the Standardized Testing

in Mathematics," sponsored by the

College Board and the Mathematical

Association of America in New York City.

There, he presented "A Historical

Perspective on Calculator Usage on

Standardized Examinations."

-- chaired an MAA Committee on

Placement Examination meeting in

Washington, D.C.

-- helped initiate the MAA Committee

on Placement Examination's project to

develop a series of calculator-based math

placement tests. The project has

received a multi-year grant from Texas

Instruments Corp.

-- chaired a panel presentation,

"Removing the Mathematical Barrier to Access to College," at the College Board's National Forum in New York City.

-- gave an invited talk, "Update on the College Board Recommendations in Mathematics," at the annual meeting of the Georgia Council of Mathematics Teachers.

-- participated in two conferences, "The Influence of Testing on Mathematics Education" and "The School Mathematics Curriculum: Raising National Expectations," sponsored by the Mathematical Sciences Education Board.

-- gave workshops on the problems of access to and quality preparation for college-level work in Orangeburg, Florence and Rock Hill, sponsored by the College Board and the S.C. Department of Education. He is scheduled to give similar workshops in Columbia and Charleston in January.

Military Science

V. Aviles was promoted to Army sergeant major in recent ceremonies. He is a veteran of 19 years of service with numerous airborne and special forces units. Sergeant major is the highest enlisted rank a soldier can attain.

Parks, Recreation and Tourism Management

F.A. McGuire (Assoc Prof) was a panel member for a session, "The Publication Process for Special Population Topics," at the 1986 Congress for Recreation and Parks in California.

McGuire, J. O'Leary (Purdue Univ) and D. Dottavio (National Park Service) published "Constraints to Participants in Outdoor Recreation Across the Life Span: A Nationwide Study of Limitors and Prohibitors" in *The Gerontologist*.

Physics and Astronomy

H.W. Graben (Prof), **R.C. Turner** (Prof) and **E.M. Reagan** (J.L. Mann High School) coordinated the fall meeting of the South Atlantic Coast Section of the American Association of Physics Teachers here. At the meeting:

-- **W.E. Gettys** (Prof) gave an invited talk, "Facts and Trends in Advanced Placement Physics."

-- **T.F. Collins** (Assoc Prof) participated in a panel discussion on "College/High School Interactions."

-- **F.J. Keller** (Prof) chaired a session on "Physics Demonstrations."

-- Graben chaired the keynote session.

-- Turner presented "Toys in Physics Teaching."

-- **D.P. Miller** (Prof) and **M.G. Miller** (Prof) provided demonstrations on "The Computer in the Introductory Physics Laboratory."

Psychology

P.A. Conner-Green (Asst Prof) presented "An Educational Group Approach to Treating Bulimia" at the annual conference of the Center for the Study of Anorexia and Bulimia in New York City.

B.R. Stephens (Asst Prof) presented a colloquium, "The Development of Form Perception: Contract Constancy and Face Preference in Infants," to the psychology department at the University of Georgia.

Textiles

H.M. Behery (Prof) coordinated the Third Annual U.S. Mission to the Far East, sponsored by the Professional Development Office and the National Association of Hose and Manufacturers.

Behery has been elected 1986-87 executive committee technical chairman in the Textile Engineering Division of the American Society of Mechanical Engineers, and vice president of the Fulbright Association's Piedmont Chapter.

He also chaired the annual conference of the Textile Engineering Division of the ASME held in conjunction with the Second National Cotton Textile Conference sponsored by the National Cotton Council in Myrtle Beach.

Goodstein to participate in Rose Bowl Parade

Richard Goodstein, assistant professor of music and associate director of bands, will help direct the United Way Centennial Fanfare Band at the 1987 Rose Bowl Parade.

Goodstein was invited to direct the 100 fanfare trumpeters, who were selected by college and university band directors from across the United States.

The United Way band was put together to help celebrate 100 years of service of the United Way charities.

Clemson Faculty Salary Report (Fall Semester 1986-87)

The faculty salary report from the Office of the Provost is based on a 9-month pay period. It includes maximum, minimum, median and average salaries by sex and by rank for each college and the library. If a category contains less than five faculty members, no information is given other than the number of members in that category (shown in parentheses). Part-time and visiting faculty have been excluded.

Professor-Male

College	Faculty	Max \$	Min \$	Med \$	Ave \$
Agriculture	103	64,294	29,791	41,683	42,101
Architecture	17	58,642	36,920	42,952	44,283
Commerce & Ind.	38	75,000	31,320	47,410	49,365
Education	12	48,524	37,302	44,132	42,626
Engineering	52	73,500	33,495	50,700	51,578
Forest & Rec.	22	50,455	34,409	41,715	42,247
Liberal Arts	27	54,737	30,332	38,795	39,537
Sciences	67	66,276	31,603	47,608	47,817

Professor-Female

Agriculture	(3)				
Architecture	(1)				
Commerce & Ind.	(1)				
Education	(2)				
Liberal Arts	(3)				
Nursing	(1)				
Sciences	7	56,219	32,833	37,809	42,990
Total					
	345(11)	75,000	29,791	44,689	45,391

Associate Professor-Male

College	Faculty	Max \$	Min \$	Med \$	Ave \$
Agriculture	67	45,061	27,070	32,638	32,655
Architecture	18	40,144	29,300	34,851	34,506
Commerce & Ind.	23	47,850	32,499	40,120	40,480
Education	15	39,300	27,256	31,886	31,895
Engineering	35	50,500	35,000	40,053	40,593
Forest & Rec.	15	38,320	27,588	32,355	32,090
Liberal Arts	36	39,842	24,400	28,887	29,235
Sciences	42	45,900	23,763	33,038	34,829

Associate Professor-Female

Agriculture	11	37,857	26,628	31,032	31,634
Architecture	(2)				
Commerce & Ind.	(3)				
Education	5	32,097	27,000	29,531	29,697
Engineering	(1)				
Forest & Rec.	(1)				
Liberal Arts	7	32,124	25,000	28,460	28,914
Nursing	(3)				
Sciences	(1)				
Total					
	274(11)	50,500	23,763	32,930	34,068

Assistant Professor-Male

College	Faculty	Max \$	Min \$	Med \$	Ave \$
Agriculture	30	32,720	22,527	27,803	28,049
Commerce & Ind.	20	44,950	26,280	35,000	35,400
Education	(4)				
Engineering	24	38,600	32,960	36,000	35,884
Forest & Rec.	6	28,342	23,591	25,931	25,818
Liberal Arts	30	29,851	20,296	25,154	25,052
Sciences	22	40,000	22,419	30,000	30,887

Assistant Professor-Female

Agriculture	7	32,540	27,644	28,585	29,228
Architecture	(1)				
Commerce & Ind.	5	38,700	33,277	34,944	35,407
Education	(2)				
Engineering	(3)				
Forest & Rec.	(2)				
Liberal Arts	21	29,610	21,000	23,946	24,323
Nursing	21	35,597	24,247	29,870	29,702
Sciences	(4)				
Total					
	186(16)	44,950	20,296	28,549	29,638

Instructor-Male

College	Faculty	Max \$	Min \$	Med \$	Ave \$
Agriculture	(4)				
Commerce & Ind.	(4)				
Education	(1)				
Engineering	(1)				
Forest & Rec.	(1)				
Liberal Arts	9	25,760	15,500	16,200	17,261
Sciences	(2)				

Instructor-Female

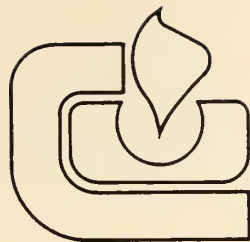
Agriculture	(2)				
Commerce & Ind.	(1)				
Forest & Rec.	(1)				
Liberal Arts	7	17,760	15,500	16,200	16,231
Nursing	(2)				
Sciences	(2)				
Total					
	16(21)	25,760	15,500	16,200	16,811

Other-Male

College	Faculty	Max \$	Min \$	Med \$	Ave \$
Libraries	(4)				

Other-Female

Libraries	8	26,168	16,761	22,733	21,721
Total					
	8(4)	26,168	16,761	22,733	21,721



Events

INFORMATION FOR THE FACULTY AND STAFF OF CLEMSON UNIVERSITY

This calendar is prepared up to a month in advance. Please send in writing to the MASTER CALENDAR EDITOR, Trustee House, any campus event that should be listed. You also may call 656-3862 to check the UNIVERSITY MASTER CALENDAR for possible scheduling conflicts. (Call the number listed in each entry for more information.)

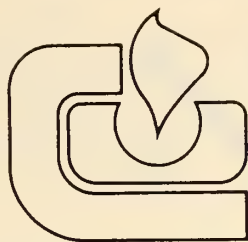
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December 19 - January 2

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|--------------------|--|
| Through
Jan. 31 | Exhibit: Census and Civilization: From B.C. Rome to CD ROM. Cooper Library. (656-3042) |
| 19 | University housing closes at 8 a.m. |
| 20 | Women's Basketball: University of Alabama. Littlejohn Coliseum. (656-2101) |
| 22-26 | Christmas, University closed. |
| 30-Jan. 11 | Short Course: Nematode Identification. 8 a.m.-5 p.m., 118 Long Hall, \$300. (Plant Pathology and Physiology Department, 656-3451) |

Continuous YMCA-sponsored classes in women's and men's fitness, youth fitness, aerobics, exercise, Jazzercise, social dancing, Middle Eastern dance, swimming, gymnastics, lifesaving and after-school day-care programs. (656-2460)

DEC 30 1986



Events

INFORMATION FOR THE FACULTY AND STAFF OF CLEMSON UNIVERSITY

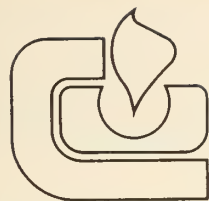
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January 2 - 9

- 4 **University housing opens at 10 a.m.**
- 5 **Registration and orientation.**
- 5-9 **Conference: Brick Short Course.** (Continuing Engineering Education, 656-2200)
- 6-8 **Conference: Microcomputer Hardware Interfacing.** (Continuing Engineering Education, 656-2200)
- 6-13 **Late registration.**
- 7 **Classes begin.**
- 7 **Men's basketball: N.C. State.** 7:30 p.m., Littlejohn Coliseum. (656-2101)
- 7-26 **Exhibit: "The Contemporary Terra Cotta Tile Competition and Exhibition."** Rudolph E. Lee Gallery, Lee Hall; 9 a.m. - 4:30 p.m. weekdays, 2-5 p.m. Sundays; free.

Continuous YMCA-sponsored classes in women's and men's fitness, youth fitness, aerobics, exercise, Jazzercise, social dancing, Middle Eastern dance, swimming, gymnastics, lifesaving and after-school day-care programs. (656-2460)

2014/11



Newsletter

JAN 7 1987

Jan. 7, 1987

Information for the Faculty and Staff of Clemson University

Briefly...

Three employees honored

Three Physical Plant staff members have been named departmental employees of the month for November by the Office of Business and Finance.

They are Roscoe Benson and Woodrow Ertzberger, grounds-keeping supervisors, and Samuel Hilland, master craftsman.

Nedelman wins prize

Mathematical sciences Professor Jerry Nedelman is one of two recipients sharing the first Bellman Prize, awarded to the best paper published in Mathematical Biosciences magazine in 1984 and 1985.

Nedelman tied for first place with his paper, "Innoculation and Recovery Rates in the Malaria Model (Dietz, Molineaux and Thomas.)"

The prize, \$500 plus an announcement in Mathematical Biosciences, will be split between the authors.

Senate elects officers

Three Extension Senate officers for 1987-88 were elected Nov. 11.

John Albrecht, animal science professor at the Pee Dee Station in Florence, was named president.

Wallace Wood, McCormick County Extension chairman, was elected vice president, and Robin Conn, Aiken County home economics agent, is the new secretary.

Committees will study foundation's report

Carnegie executive to speak in Lee Hall Tuesday

Verne Stadtman, vice president for general services of the Carnegie Foundation for the Advancement of Teaching, will speak Jan. 13 at 3:30 p.m. in Lee Hall auditorium.

Faculty and staff members and the public are invited to attend.

Stadtman is an editor of the Carnegie report on undergraduate education that will be released this month.

The report, "College: The Undergraduate Experience in America," is based on studies of 29 colleges and universities and on separate surveys of 5,000 faculty members, 5,000 college students and 1,000 college-bound high school students.

It focuses on eight "tension points" of undergraduate education found during the study and gives recommendations for overcoming the problems.

"The undergraduate college, the very heart of higher learning, is a troubled institution," said Ernest Boyer, president of the Carnegie Foundation, in the report.

"Driven by careerism and overshadowed by graduate and professional education, many of the nation's colleges and universities are more successful in credentialing than in providing a quality education for their students.

"During our study we found deep divisions on the campus, conflicting priorities and competing interests that diminish the intellectual and social quality of the undergraduate experience and dramatically restrict

the capacity of the college effectively to serve its students," said Boyer.

"What we need today is a constructive debate about the meaning of the undergraduate college and a willingness to make this part of the educational enterprise a more vital, more enriching institution."

The eight points of tension are: the transition from high school to college, confusion over institutional goals, loyalties of faculty members divided between research and teaching, tension between conformity and creativity in the classroom, a separation of social and academic life on campus, disagreement about college government, debate over how the outcome of a college education should be measured, and a gap between the college and the larger world.

Stadtman was invited to Clemson by the Faculty Senate's Advisory/Executive Committee. The program is being held in place of the Senate's usual monthly meeting.

Vice Provost for Undergraduate Studies Jerry Reel and Faculty Senate President Larry Dyck have set up eight committees to examine each of the report's concerns.

The committees will give their reports to the Commission on Undergraduate Studies by March or April in time to be included in the commission's spring agendas, said Reel.

"We hope the committees' reports will determine whether or not the eight tensions exist on this campus,

(Continued on page 3.)

At Dec. 17 meeting

Lennon asks employees to set priorities

"I'm more and more convinced that this next decade will be one of the most exciting decades in the history of Clemson University.

"Clemson will be even more successful in its second 100 years than it was in its first," said President Max Lennon in his address to the faculty and staff Dec. 17.

Lennon referred to his message to the faculty and staff in January, 1986, when he asked the University to gain a "real-world" perspective.

"A year ago I shared with you my deep conviction that when faculty think about curriculum they must understand the world in which we live," he said.

"There are many parts of a curriculum that should not change, and there are components that should. The difficult challenge is to accurately separate the two, because, in this business, there is no margin for error.

"I want to tell you how proud I am to work with you in this undertaking. Having been associated with several major universities and with one major corporation, I've never seen a group of people so willing to take on a challenge."

Lennon said working with the priorities of the University's faculty and staff will be the new leadership style at Clemson.

"Any major initiative, any major change for the better, must be faculty-developed and faculty-led."

Clemson's academic record speaks for itself, he said.

"We should be proud of our past, of our accomplishments. But the real question is 'Where shall we go as an institution? How do we do those things that will guarantee Clemson University will rank high among its peers in the year 2000?'"

Lennon said the University is handicapped by the current budget problems, but not paralyzed.

"I am convinced we will continue to

experience fluctuations in the base budget," he said.

"Therefore, the challenge for all of us is to learn to manage for flexibility so that when those downturns occur -- and there will be many of them in our future -- they won't be devastating. We will have prepared ourselves for them."

"I've never seen a group of people so willing to take on a challenge."

-- President Lennon

He said the University's opportunities and its rate of success can be determined by its faculty and staff.

"We've only just begun. As we go through the ups and downs, keep that in mind, and begin to visualize a five- or ten-year time frame in which to set your benchmarks.

"If you can do that with us, these will be exciting times.

"Remember, the need for what you do has never been greater than it is now."

The faculty/staff meeting also featured reports from Provost David Maxwell, the Faculty Senate and the Commission on Classified Staff Affairs.

Maxwell agreed with Lennon that the enthusiasm for Clemson at Clemson is at one of the all-time highs.

"Over the past year there has been a spirit of cooperation across college lines that we have not had before to the same degree," he said.

"This new spirit that has characterized this campus since last spring -- the enthusiasm, the vigor, the confidence in the future -- is attributable to no one, in my opinion as it is to our new president, Dr. Max Lennon."

Maxwell said the administration counting on everyone's cooperation in dealing with the budget situation painlessly as possible, an effort "characterized by the most important priorities the University can assign.

In his presentation, Senate President Larry Dyck emphasized the need for increased faculty input concerning Clemson's policies, programs and initiatives.

"As Clemson moves forward into the challenges afforded by the Second Century plan, but is at the same time burdened by budgetary shortfalls, it becomes even more important that faculty accept their duties as the guardians of pedagogical values and the inspiration and motivation behind research excellence," he said.

(Continued on next page)



The Clemson University Newsletter is published for Roger Jamison, Housing's employee of the month for November, and for all the members of the faculty and staff by the Division of University Relations.

University Newsletter Editor Deborah M. Slick
Acting Director, News Services ... Catherine San

We welcome your comments and suggestions. Call us at 656-4989 or write us at 103 Fike Center. DEADLINE is Jan. 13, noon, for Jan. 21 issue.

Carnegie report, cont.

and whether or not these tensions are healthy aspects of undergraduate education," he said.

"If the committees find that the issues outlined in the Carnegie report are problems at Clemson, they will recommend further study or make suggestions for overcoming the problems.

"Proposals then will be forwarded to the President through the appropriate commissions and committees."

Reel said Clemson's reaction to the Carnegie report probably is typical of many schools.

"Any serious criticism of higher education needs to be responded to thoughtfully and carefully," he said.

"Each institution will have a different response, because each has a unique mission."

The committees, their chairs and members are:

■ Discontinuity Between Schools and Higher Education

Committee: Robert Waller, dean of the College of Liberal Arts, chair; Christine Sawyer, special academic projects director; William Beckwith, chemical engineering professor; Joy Smith, dean of student life; Carl Hims, head of the department of

biological sciences; and Edward Freeland, student.

■ Confusion Over Goals

Committee: Henry Vogel, dean of the College of Sciences, chair; Dale Linville, agricultural engineering professor; William Baron, civil engineering professor; John Jacques, architectural studies professor; Jim Sheriff, accounting professor; Foster Senn, student; and Fred Raetsch, elementary and secondary education professor.

■ Divided Loyalties Among Faculty Members

Committee: Charles Jennett, dean of the College of Engineering, chair; Ernest Sims Jr., horticulture professor; Eugene Galluscio, head of the department of psychology; Richard Calhoun, English professor; and Raymond Turner, physics professor.

■ Tension Between Conformity and Creativity in the Classroom

Committee: James Matthews, dean of the College of Education, chair; Joseph Mullins, chemical engineering professor; Susan Hilligoss, English professor; Robert Franklin, student; and William Steirer, history professor.

■ Campus Life Separation

Committee: James Barker, dean of the College of Architecture, chair; Almeda Rogers, assistant vice president for student affairs; Ron

Nowaczyk, psychology professor; Joseph Boykin, director of libraries; Drew Smith, computer center systems programmer; and William McColl, student.

■ Disagreement Over

Governance Committee: Ryan Amacher, dean of the College of Commerce and Industry, chair; Joseph Mullins, chemical engineering professor; Fred Richey, student body president; and Al Newton, head of the department of industrial education.

■ Outcomes Assessment

Committee: Herbert Brantley, acting dean of the College of Forest and Recreation Resources, chair; Ida Carolyn Briscoe, education professor; Stanley Lukawecki, mathematical sciences professor; George Carter, plant pathology and physiology professor; James Meek, student; and Charles Roby, engineering technology professor.

■ Relations to the Larger

World Committee: Stephen Chapman, acting dean of the College of Agricultural Sciences, chair; James Schindler, zoology professor; Richard Conover, parks, recreation and tourism professor; Sharon Thompson, nursing professor; Jeuel LaTorre, mathematical sciences professor; and Julian Kaufmann, student.

Priorities, cont.

Staff Commission Chair Pat Edgett also emphasized the need for employee participation in University administration.

"Classified staff members on this campus are involved, concerned and aware of their varied roles," she said.

She said the commission, now in its third year, is continuing to work with the more than 2,300 classified staff on issues important to them and to help increase their participation on many commissions and committees that influence decisions about employee welfare made by the administration.

Also on the meeting's agenda were presentations on two programs in areas included in the focus of the University's master plan for the 21st century.

Bioengineering Professor Larry Dooley gave a slide presentation and talk about the research project to develop a computer-aided system for designing tailored prosthetic implants.

The project is one of the Bioengineering Alliance of South Carolina, made up of physicians, engineers and scientists at Clemson, the University of South Carolina and the Medical University of South Carolina.

Alan Schaffer, history professor,

talked about the Palmetto Humanities Program, designed to "help individuals with heavy business or technical training to begin to see the world in which they live and work from a different, and we believe, very important, perspective."

The proposed program features an intense one- or two-week seminar on the humanities led by Clemson faculty from every college.

Schaffer said that although program funding has not been determined, the University administration has responded favorably to the idea and has encouraged Schaffer and the other organizers to continue establishing project guidelines and goals.



Members of the new Employee Relations Council for Business and Finance are (kneeling) Harold Duncan, Norman Durham, Duff Burgess; (seated) Debra Oates, Gail Roberts, Rhonda Arthur, Barbara Dillard; (standing) Ann Hughes, Roy Reid, Robert Stadtmiller, Charles Barker, Charles Butts and David Larson. Not pictured are Mildred King and Selena Peppers.

Employee relations group set up

A 14-member Employee Relations Council has been set up to boost communication between clerical and supporting Business and Finance employees and Vice President David Larson.

The council will meet regularly to discuss issues that concern employees, such as merit raises, parking, working conditions, benefits, compensatory time and evaluation procedures, said Larson.

"These employees normally do not have a way to communicate directly to me about what they think will help them and the rest of the University.

"In this council, each department in Business and Finance has a voice.

"Each employee of the University is an integral part of what makes our institution a success. Their input and suggestions are important to me," he said.

The council members will work

with the Personnel Division to organize meetings with their constituencies at least every other month. About three times a year they will meet with Larson to discuss topics important to the employees they represent.

Larson, Personnel director Ray Thompson and the council members met for the first time Dec. 17.

Council member Rhonda Arthur, personnel assistant, represents the Office of Budgets and Planning, business management, Personnel Division and administrative data processing.

Gail Roberts, executive support specialist, represents the financial management department.

Norman Durham, printing production manager, represents the print shop, telecommunications and the post office.

Mildred King, accounting technician, represents the laundry.

Ann Hughes, clerical specialist purchasing, represents purchasing and the motor pool.

Barbara Dillard, administrative specialist in the Physical Plant, represents facilities management.

Custodial workers Roy Reid and Selena Peppers and supervisor Robert Stadtmiller represent custodial services.

Trades craftsmen Harold Duncan and Duff Burgess and trades helper Debra Oates represent building maintenance.

Charles Butts, vehicle operator, and Charles Barker, environmental systems plant supervisor, represent grounds maintenance and utilities.

Clemson is 89th in research ranking

An article in the Dec. 10 issue of The Chronicle of Higher Education ranks Clemson's research program 89th among the nation's major colleges and universities.

Based on information from the National Science Foundation, the list compares institutions that spent more than \$30 million for research during the 1984-85 fiscal year.

"This is the first time we've made the list," President Max Lennon told the Board of Trustees during the telephone board meeting Dec. 9.

"I'm extremely proud," he said.

Clemson's research spending for '84-85 was \$32,326,000. Federal sources, state and local governments, and Clemson itself each provided about \$10 million of the total. Industry support accounted for another \$1.8 million.

In other business, the Board of Trustees reaffirmed their \$5.5-million spending cap for a building to house the Strom Thurmond Institute.

David Larson, vice president for business and finance, said the lowest of the construction bids received in November was around \$6 million. He said he hopes to have recommendations for reducing the costs ready for the board's next meeting, Jan. 17.

unding will support alcohol awareness projects

Student Life gets grant for campaign

The Office of Student Life has received a \$29,000 grant to increase the University community's awareness of how alcohol abuse can affect our lives and how, if a person does drink, he or she can be a responsible drinker.

The grant was awarded this fall through the highway safety program sponsored by the governor's office. Clemson's grant for the first year of a possible three-year campaign falls under the "alcohol countermeasures" category.

The project focuses on students, but University employees will benefit from many of the proposed activities, said Bonnie Stevens, assistant dean of student life and the project coordinator.

One of our objectives is to tell people about DUI laws and how blood alcohol content is calculated," Stevens said. "We're doing this through distribution of wallet-sized guides to students, faculty and staff about vehicle registration and on an ongoing basis throughout the year." Another objective is the erection of road signs at strategic locations on campus that will remind drivers not to drink after drinking, to watch out for other drivers and to buckle up.

Stevens said her office applied for the grant because the University is increasing its focus on substance abuse education. Even though more than 70 percent of the students here do not drink legally, a large percentage of them continue to do so.

During a student's four years at Clemson, he learns more than just what goes on in the classroom," Stevens said. "We are responsible for providing as much information as possible to students -- information on which they can base their decisions about social behavior and drinking. We need to take an educational approach. We think of students as

adults and, because of that, we need to respect their ability to make their own decisions.

"It is unrealistic to say, 'No, you can't drink at Clemson.' We need to help these students understand how their drinking habits are affecting or could affect their whole lives, and let them make their own decisions," she said.

Clemson already offers a program for students who have gotten into some sort of trouble while under the influence of alcohol.

Cheryl Funderburk, a counselor with the Pickens County Commission on Alcohol and Drug Abuse, leads an eight-hour class for students who, as part of their sanctions for misconduct, have been referred to her.

Funderburk said that in the two years she has conducted the classes, no Clemson student has been referred to her more than once.

"We feel students are learning more about becoming more responsible drinkers at these classes than they would by being assigned menial tasks for a prescribed period of time," she said.

Some specific projects that are planned as part of the campaign include:

- A videotape about hosting social events and the legal and social concerns about serving alcohol will be produced and shown to organizations that register on-campus parties with the Office of Student Life.

- Guides for calculating blood alcohol content will be distributed on campus.

- Informative brochures and a newsletter will be published and distributed on campus.

- Two breathalyzers will be purchased and loaned to student organizations for use during their parties. The equipment will be monitored by a trained graduate

student and will not be used as a "drinking game," but as a way to help students realize the effect a few drinks may have on their blood alcohol content.

- Non-alcoholic parties will be held at Edgar's in the University Union to provide an alternative to off-campus bars or parties that serve alcoholic beverages and increase the incidence of impaired driving.

"We want students to know it's okay not to drink," Stevens said.

"We'd like them to realize that if they can have fun at these parties without alcoholic beverages, maybe they don't need alcohol at all functions."

The grant will help Student Life get most of these projects off the ground through September 1987.

"We are going to try some activities this year, and if they are successful, we'll be in a better position to ask the University for funding in the future."

The University welcomes these new employees:

Agricultural Communications:

Ron Addis, assistant director of public and Extension education.

Bioengineering: Christopher Vaughan, associate professor.

Ceramic Engineering: Teresa Williams, administrative specialist.

Chemistry: Kanamathareddy Suseela and Shi Zheng Zhu, research associates and assistant professors.

Dairy Science: Jean Bertrand, assistant professor.

Livestock and Poultry Health: Arneal Williams, security officer.

Mathematical Sciences: Lyndall Willis, administrative specialist.

News Services: Sandy Woodward, public information director.

Commission survey identifies staff's top 16 concerns

At the Commission on Classified Staff Affairs' Dec. 11 meeting, Chair Pat Padgett said about 675 employees responded to the group's interest survey distributed in the fall.

"That's about 30 percent of all classified staff," Padgett said. "And their responses show that we already have been working on the issues they think are most important."

"That is very gratifying to me."

The 14 items staff members identified as the top concerns are merit pay, professional development opportunities, parking, longevity pay program, health insurance, performance evaluation, annual leave, compensation, job training, retirement programs, dental insurance, compensatory time, comparable worth and a wellness program. Disability and life insurance programs

are tied for number 15.

Questions raised by the survey responses will be addressed by appropriate Staff Commission committees and answered in a regular column in the Newsletter.

Padgett presented the commission's 1987-88 pay plan proposal Dec. 15 to the President's Cabinet, which endorsed the plan in principle but noted that legislative changes will have to be made before the University can implement some of the ideas presented.

The commission's proposal focuses on three items: that the University be allowed autonomy in determining pay plans and other matters of concern to its employees, that a longevity pay plan be established, and that the University improve the retirement program.



Lawrimore

Lawrimore named public service award winner

Barrett Lawrimore, who has initiated numerous innovative agriculture and community programs in Charleston County, has been awarded the Clemson University Alumni Award for Distinguished Public Service.

The \$1,500 award was presented to Lawrimore, the Extension Service chairman in Charleston, during the Dec. 17 faculty/staff meeting.

He was recognized for 29 years of outstanding leadership in such educational efforts as the Master Gardener program, an integrated pest management program for coastal commercial tomato growers, the Charleston Pride community development program, and his work in having a 4-H youth fair incorporated into the annual Coastal Carolina Fair.

The Charleston Pride program has received the Governor's Trophy and national recognition for its projects, said George Moore, executive officer of the Clemson Alumni Association which sponsors the award.

Lawrimore received a degree in agricultural economics here in 1958.

Departments can order business cards

Departmental funds now can be used to buy business cards.

Purchases must be approved by appropriate departmental officials and the cards must follow the standard format approved by the President's Cabinet Nov. 17, 1986.

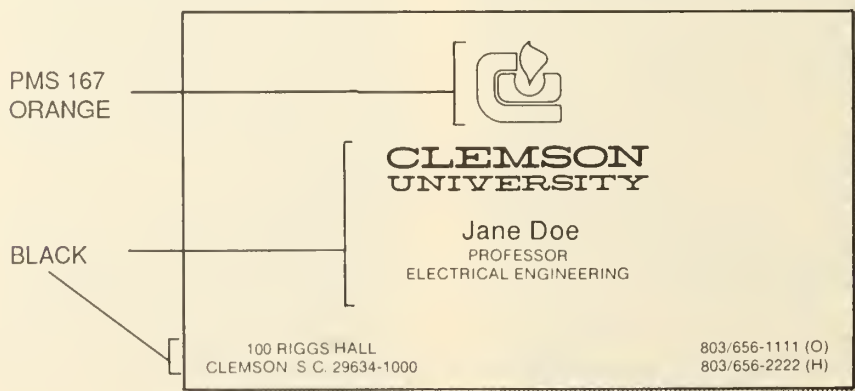
The design, illustrated below, features the University logo printed in burnt orange ink on a cream-colored card stock. All other information is

printed in black ink.

Printing and Graphics Services should award a contract for printing by the end of January, said director Debbie Dunning.

The anticipated price of the cards is about \$20 for 100 cards up to about \$42 for 1,000.

For more information about ordering business cards, call publications manager Lisa Banes, 656-2469.



Departmental notes

Cultural Economics and Rural Sociology

J.A. Tinsley (Prof) co-authored "Tax Implications of Liquidating a Farm Estate," published by the USDA Extension Service. It is a tax guide for farmers liquidating part or all of their estates.

E. Miller (Prof) and **K.H. Kahl** (Asst Prof) presented "Forward Pricing When Yields Are Uncertain" at the fall research seminar of the Chicago Board of Trade.

C. Hite (Alumni Prof) published

"Interbasin Water Transfers in Riparian Doctrine States: The Case for Interregional Compensation" and reviewed Ann Markusen's "Profit Cycles, Oligopoly, and Regional Development" in Growth and Change.

Architectural Studies

G. Walker (Assoc Prof) presented "Content, Presentation and Representation" at the regional Symposium on Representation in Architecture held here Nov. 10 and 11.

Y. Kishimoto (Assoc Prof) presented

"Architectural Technology" at the ACSA Architecture of Technology Conference at the AIA headquarters in Washington, D.C. He also presented "Space, Time and Culture" at the International Built Form and Culture Research Conference at the University of Kansas.

M. Davis (Assoc Prof) presented "The Eclectic Architecture of Reuben Harrison Hunt" at the fourth annual meeting of the Southeast Chapter Society of Architectural Historians at the University of Alabama.

Biology

R. Garcia (Assoc Prof) presented a series of workshops titled "Teaching Teachers How to Teach Science as a Process" for Newberry County high school science teachers. Garcia is science consultant for Newberry County schools.

W. Surver (Assoc Prof) and **R. Kosinski** (Asst Prof) received an \$80,000 grant from IBM to study the integration of microcomputer software into the high school biology curriculum. Surver, who is executive secretary of the Junior Academy of Science, presided over the academy's fall workshop in Aiken.

At the workshop, **D. Stroup** (Asst Prof) presented a talk, "What a Judge Looks for in a Research Paper."

Stroup and **J. Dickey** (Asst Prof) attended the regional meeting of the National Teachers Association in Indianapolis. There, Stroup presented a workshop, "Developing Critical Thinking Skills in Science Teaching."

At the annual meeting of the National Association of Biology Teachers in Baltimore:

-- Garcia presented a workshop, "Selection and Evaluation of Biology Computer Assisted Instruction Materials."

-- Kosinski and Surver presented "Integration of IBM Biology Series Software into the High School and Middle School Curriculum."

-- Surver and **D. Smith** (Instr) presented a workshop, "Applications of Videodisc Technology in Teaching Biology."

-- **D. Helms** (Program Director) spoke in the symposium "Curriculum Choices in



Movin' Out -- As the fall semester drew to a close, Walter Earle of Anderson, like many chemistry students, took time out during exams to help move equipment into the recently constructed chemistry building. The as-yet-unnamed building will be used for classes for the first time this month. The next step will be to raise additional funds to replace outdated equipment.

(Continued on next page.)

Notes, cont.

Teaching College Biology."

-- **B. Leonard** (Prof) organized and participated in a symposium, "Large Enrollment Laboratories in College Biology: Some Current Concerns and Solutions." Leonard also presented "Ecosystem Energetics."

Helms, who is chief reader designate for a three-year term in Biology Advanced Placement, met with other A.P. biology readers in Princeton, N.J., to review questions for the 1987 exam and to prepare for the 1988 exam.

Helms, Dickey, Kosinski, Leonard, Smith, Surver, **S. Miller** (Adj Prof), **M. Ruppert** (Asst Prof), and **K. Wagner** (Assoc Prof) attended the 11th annual convention of the S.C. Science Council in Columbia.

At the convention:

-- Helms presented a workshop, "Update on Advanced Placement Biology."

-- Surver and Kosinski presented "Integration of Microcomputer Software Into the Science Curriculum."

-- Smith and Surver spoke at the "Junior Academy of Science Update."

-- Helms, Miller, Dickey, Ruppert and Surver presided over the reunions of their summer '85 and '86 teachers from the South Carolina Professional Development Program for Science and Mathematics Teachers.

-- Smith and **J. Diehl** (animal science) presented a 30-minute videotape of "Embryo Recovery Techniques."

Wagner received the Faculty Excellence in Teaching Award from the Clemson Alumni Physicians Society during their annual meeting in October.

Chemical Engineering

S.S. Melsheimer (Prof and Acting Head) served as student program coordinator at the 1986 AIChE Meeting in Miami Beach, Fla.

J.M. Halle (Prof) published "Computer Simulation of Fluid Mixtures" in Fluid Phase Equilibria.

A.A. Ogale (Asst Prof) chaired a session on "Polymer Quality" at the 1986 Fiber Producer Conference in Greenville. Ogale also presented "Physical Aging Characteristics of Polyetheretherketone," written with R.L. McCullough (Univ of Delaware), at the Society for

Experimental Mechanics 1986 fall conference in Colorado.

Chemistry

R.A. Abramovitch (Prof) participated in a workshop in Maryland organized by the Office of Naval Research on the subject of crystalline energetic materials and presented an invited lecture, "Arylnitrenium Ions," at the University of New Orleans.

D.D. DesMarteau (Prof and Head) chaired an American Society of Engineers Education review panel for the Office of Naval Technology Postdoctoral Fellowship program in Washington, D.C.

A.L. Beyerlein (Prof) and **J.F. Geldard** (Assoc Prof) attended the International Symposium on Nuclear Material Safeguards in Vienna, Austria, sponsored by the International Atomic Energy Agency, a unit of the United Nations. There, Beyerlein read their joint paper, "Nuclear Material Inventory Estimation for Mixer-Settler Contractors."

K. Dill (Assoc Prof) presented an invited lecture, "Natural Abundance ¹³C NMR Studies of Glycoproteins and Spin-Echo, 1-D and 2-D NMR Studies of the Interaction of Phenylchloroarsine with Intact Erythrocytes," at the Bowman Gray School of Medicine in Winston-Salem.

J.D. Peterson (Prof and Assoc Dean of Science):

-- presented a seminar, "Photochemistry and Photophysics of Multimetal Systems," to the departments of chemistry at the University of Colorado and the University of Southern Colorado.

-- presented a seminar, "Photochemistry and Photophysics of Polymetallic Complexes," at the University of Vermont.

-- presented a lecture on "Electrochemical Techniques and Their Applications in Transitional Metal Chemistry" to the department of chemistry at St. Michael's College in Vermont.

Clemson chemists presented four papers at the 38th Southeast Regional American Chemical Society Meeting in Louisville, Ky.:

-- **Peterson, W. Rorer Murphy Jr.** (former Grad Stu), **G. Gettliffe** (Grad Stu) and **C.A. Brady** (Grad Stu): "Preparation and Properties of Novel Metallopolymers."

-- **B. MacQueen** (Grad Stu) and Peterson: "Photochemical Production of Hydrogen Using Heterobimetallic Complexes."

-- **A.W. Wallace** (Grad Stu) and Peterson: "Ground and Excited State Properties of Mono- and Bimetallic Complexes of Ruthenium(II) and Iron(II)."

-- **K.J. Brewer** (Grad Stu), Peterson, Murphy and Gettliffe: "Tetrametallic Complexes of Ruthenium(II) and Iron(II)."

Civil Engineering

S.C. Anand (Prof) was invited by the educational division of the American Society of Civil Engineers to serve on the Accreditation Board for Engineering and Technology team as an observer and visited the University of Alabama in October on an accreditation visit.

Earth Science

C.G. Maples (Vstg Asst Prof) published "Trace Fossils and Shoalin Upward Cycles in the Mississippian Monteagle Limestone" with A. W. Arciszewski in Southeastern Geology. Maples also presented "Early-diagenetic Concretions in a Pennsylvanian Shale: Taphonomic Control over Paleoecological and Paleoenvironmental Interpretations" at the annual meeting of the Geological Society of America in San Antonio, Texas.

J.R. Wagner (Asst Prof) presented a workshop for earth science teachers at the annual convention of the South Carolina Science Council in Columbia.

Electrical and Computer Engineering

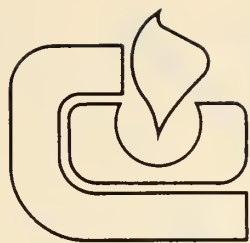
X.B. Xu (Vstg Asst Prof) and **C.M. Butler** (Prof) published "Current Induced by TE Excitation on a Conducting Cylinder Located Near the Planar Interface Between Two Semi-Infinite Half-Spaces" in IEEE Trans. Antennas Propagation.

J.W. Lathrop (Prof) presented an invited talk, "The Development of the Integrated Circuit," at the 93rd Two-Year College Chemistry Conference in Greenville.

Extension Home Economics

G.M. Couchman (Assoc Prof) presented "Economics of Midlife Women's Employability Issues" at the American Vocational Association National Convention in Dallas.

J.H. Christenbury (Assoc F) attended the 1986 College Educators Home Equipment Technical Conference in Canton, Ohio. She served as program chair for the conference and was installed as president for a two-year term.



Events

INFORMATION FOR THE FACULTY AND STAFF OF CLEMSON UNIVERSITY

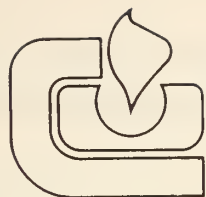
This calendar is prepared up to a month in advance. Please send in writing to the MASTER CALENDAR EDITOR, Trustee House, any campus event that should be listed. You also may call 656-4810 to check the UNIVERSITY MASTER CALENDAR for possible scheduling conflicts. (Call the number listed in each entry for more information.)

January 9 - 16

JAN 7 1987

- 9-13 **Registration for the Nursing Center's support group** for people with terminal illnesses, their families and friends. The group will meet from 7 to 9 p.m. for six consecutive Tuesday evenings beginning Jan. 13. Registration is \$20. (Nursing Center, 656-3076)
- 9-26 **Exhibit: "The Contemporary Terra Cotta Tile Competition and Exhibition."** Rudolph E. Lee Gallery, Lee Hall; 9 a.m. - 4:30 p.m. weekdays, 2-5 p.m. Sundays; free. (College of Architecture, 656-3081)
- 11-19 **Fraternity Rush.** (Interfraternity Council, 656-2153)
- 12 **Men's Basketball: Florida International.** 7:30 p.m., Littlejohn Coliseum. (656-2101)
- 12-23 **Library tours:** An orientation to materials, facilities and services of Cooper Library, including an introduction to LUIS, the on-line catalog. Tours last about an hour. Times: Jan. 12, 1:30 p.m.; Jan. 13, 7 p.m.; Jan. 14, 11:15 a.m.; Jan. 15, 3:30 p.m.; Jan. 16, 1:30 p.m. (Cooper Library, 656-3024)
- 12-Feb. 2 **Exhibit: "Paul Maxwell: Paintings and Prints."** Rudolph E. Lee Gallery, Lee Hall; 9 a.m.-4:30 p.m. weekdays, 2-5 p.m. Sundays; free. (College of Architecture, 656-3081)
- 13 Last day to register or add a class.
- 14 **Meeting: Women In Higher Education.** Golden Corral restaurant, noon. Guest speaker Verna Howell will speak on health and fitness.
- 14 **Men's Basketball: Furman.** 7:30 p.m., Littlejohn Coliseum. (656-2101)
- 14-15 **Conference: Computer Color Graphics.** Ramada Inn. (Professional Development, 656-2200)
- 15 **Lecture: "Martin Luther King as a Unifying Force in the Black Struggle,"** by Dr. Clayborn Carson, associate professor of history at Stanford University. 7 p.m., Tillman Auditorium, free. (Black Awareness Committee)

Continuous YMCA-sponsored classes in women's and men's fitness, youth fitness, aerobics, teen aerobics, exercise, Jazzercise, social dancing, Middle Eastern dance, swimming and aquacising, gymnastics, lifesaving and after-school day-care and parents' night out programs. (656-2460)



Newsletter

Vol. 26, No. 18

JAN 15 1987

Jan. 14, 1987

Information for the Faculty and Staff of Clemson University

Black history celebration begins Thursday

Clemson's celebration of February as the national Black History Month begins early this year with a presentation by Clayborn Carson of Stanford University.

Carson, an associate professor of history, will speak Jan. 15 on "Martin Luther King as a Unifying Force in the Black Struggle."

The program will be held free of charge 7 p.m. in Tillman Hall Auditorium.

The theme "Afro-Americans and Clemson University: Working Together" will be emphasized throughout the almost two-month celebration of black history, sponsored by the University ad hoc Black Awareness Committee.

Also scheduled are:

■ "A Media Presentation of Martin Luther King and the King Center" by Barbara Tagger of the National Park Service; Jan. 19, 7 p.m., Tillman Auditorium; free.

■ "Faith Journey," a musical tribute to the life and goals of Martin Luther King presented by AFRI Productions of New York City; Jan. 25, 8 p.m., Tillman Auditorium; \$1 for faculty, staff and students and \$2 for the public.

■ "The Afro-American Woman: Struggles and Images," a presentation by Sharon Harley of the University of Maryland; Feb. 2, 7 p.m., Tillman Auditorium; free.

■ A concert by the Preservation Hall Jazz Band; Feb. 5, 8 p.m., Tillman Auditorium; \$5.

■ A performance by pianists Delphin and Romain; Feb. 12, 8 p.m., Tillman Auditorium; free.

■ "The Sixth Annual Gospel Explosion," a concert by the Clemson University Gospel Choir; Feb. 15, 3

p.m., Tillman Auditorium; free.

■ "Harlem Renaissance," a presentation by Jim Haskins; Feb. 16, 7 p.m., Tillman Auditorium; free.

■ "The Wiz," a musical presented by the Clemson Players; Feb. 19-23, Daniel Hall Auditorium; free for students, \$1 for faculty and staff and

\$2 for the public.

■ "The Black Woman: Yesterday, Today and Tomorrow," a seminar; March 7, Tillman Auditorium; free.

For more information about Black History Month activities, call Lewis Suggs, assistant professor of history, at 656-5376.



David Hon, a professor and wood chemist in the forestry department, demonstrates the durability of plasticized wood made from sawdust and other wood waste materials. Products made from the wood material, such as the wooden floor tile Hon is testing with a lit cigarette, won't burn. The wood has the best properties of plastic, but is more durable and comes from a renewable source.

Departmental notes

Agricultural Education

J.A. Hash (Prof) was an invited member of the committee to select the national winner of the 1986 Agricultural Sales and/or Service Proficiency Award at the National FFA Convention in Kansas City. There, Hash received the Honorary American Farmer degree for his contributions to the organization.

Hash also served as a consultant to the Educational Testing Service in Atlanta for revising the speciality area test in agriculture for the National Teacher Examinations.

Chemistry

J.D. Petersen (Assoc Dean and Prof) presented an invited lecture, "Photochemistry and Photophysics of Polymetallic Complexes," to the chemistry department at the University of South Carolina.

Elementary and Secondary Education

R.P. Green Jr. (Assoc Prof) presented "Introducing Critical Thinking Skills" at the South Carolina Council for the Social Studies annual meeting in Florence. Green was elected to the Executive Committee of the council and appointed editor of its newsletter.

R.D. Hefley (Asst Prof) presented "Performance of Two Eye-Hand Motor Learning Tasks by Medicated and Non-Medicated Hyperactive, Emotionally Handicapped Children and Normal Children" at the South Carolina Association of Physical Education, Health, Recreation and Dance 1986 state conference in Myrtle Beach.

G.F. Elrod (Vstg Asst Prof) presented "Infusing Career Education Concepts in Secondary Special Education Teacher Training" at the Council for Exceptional Children's teacher education division annual conference in Atlanta.

D. Fuhr (Assoc Prof) was the general session speaker for the School Administrators Association Assistant Principals Meeting in Columbia. His address was "How to Survive in School Administration When the Going Gets Tougher and Tougher and Tougher." Fuhr was keynote speaker at the Alaska Elementary/Secondary Principals

Convention in Anchorage. His topic was "Rocking the Boat and Not Drowning in School Administration."

Engineering and Graphics

V.B. Anand (Assoc Prof) presented "Computer Graphics: An Overview of Use in the United States" at the 15th international symposium of the International Society for Engineering Education in Klagenfurt, Austria.

English

G.W. Koon (Prof and Head) has been elected to the Administrative Committee of the South Atlantic Association of Departments of English.

Environmental Systems Engineering

W.D. Nicholas (Grad Stu) presented a paper written with **A.R. Abernathy** (Prof)

titled "Inhibition of Metabolic Hydrogen Ion Flux Resulting From Cadmium Stress in Aquatic Microecosystems" at the International Specialty Conference on the Effects of Contaminants on Ecological Systems in Blacksburg, Va. The conference was sponsored by the International Association of Water Pollution Research and Control.

T.J. Overcamp (Prof) presented a poster paper, "Modeling Gamma Absorbed Dose Due to Meandering Plumes," at the fifth Joint AMS/APCS Conference on Air Pollution Meteorology in Chapel Hill, N.C.

Experimental Statistics

W.C. Bridges Jr. (Asst Prof) presented "Interval Estimators for Variance Ratios and Average Degree of Dominance for Mating Designs I, II, and

(Continued on next page.)

Recognition program approved

An "Employee Recognition Program" to honor and recognize outstanding classified staff employees for their contributions to the University has been approved by the President's Cabinet.

Each vice president is responsible for developing a recognition program for their area that will most effectively reflect that area's activities and mission. If a department or division already has an employee recognition

program, the vice president will either approve its continuance or require its revision.

The Personnel Division has information on setting up a particular program developed and recommended by the Commission on Classified Staff Affairs. Personnel staff also will help vice presidents develop and implement other recognition programs for their areas upon request.



The Clemson University Newsletter is published for Peggy Moore, assistant professor of elementary and secondary education, and for all members of the faculty and staff by the Division of University Relations.

University Newsletter Editor Deborah M. Slice
Acting Director, News Services ... Catherine Sams

We welcome your comments and suggestions.
Call us at 656-4989 or write us at 103 Fike Center.
DEADLINE is Jan. 20, noon, for Jan. 28 issue.

notes, cont.

"and "Comparison of Interval Estimators for Heritability and Expected Selection Response" with S.J. Knapp (Oregon State Univ) at the annual meeting of the American Society of Agronomy in New Orleans.

Forestry

T.M. Williams (Assoc Prof) and **T.G. Colavaler** (USC marine lab) published "Stream Water Chemistry of a Small Forested Watershed on the South Carolina Coast" in Southeastern Geology.

D.C. Guynn Jr. (Prof) published "Habitat Needs of Wildlife in Bottomland Hardwoods" in Management of Bottomland Hardwood for Wildlife: A Workshop, published by the Mississippi Agriculture and Forestry Experiment Station.

Guynn, J.R. Davis (Grad Asst) and **L.F. von Recum** (Prof and Head, Bioengineering) published "Implantable Telemetry in Wildlife Research" in the proceedings of the Second Annual Scientific Session of the Academy of Surgical Research.

The following papers were presented at the Fourth Biennial Southern Silvicultural Research Conference in Atlanta Nov. 4-6:

-- "Update of a Long-Term Loblolly Pine Plantation Growth and Field Study of the Clemson Experimental Forest," **A.T. Shearin** (Lect) and **L.E. Nix** (Assoc Prof).

-- "Financial Analysis of Artificial Pine Regeneration and Natural Regeneration Using Improvement Cuts," **Shearin** and **S.K. Nodine** (Instr).

-- "Impact of Pine Tip Moth Attack on Loblolly Pine Seedlings," **R.L. Hedden** (Prof) and **D.A. Haugen** (Research Assoc).

-- "Allelopathic Effects of *Sapinum sebiferum* on Loblolly Pine" and "Intensive Plantation Management Effects on Nutrient Pools: A Case Study," **C.A. Gresham** (Assoc Prof).

-- "Economic Comparisons of Naturally Selected and Artificially Regenerated Stands," **M.T. Mengak** (Grad Asst), **D.H. VanLear** (Prof), **Nodine** and **D.C. Guynn** (Prof).

-- "Regeneration of Hardwood Coppice and White Pine Following Clearcutting With and Without Prescribed Fire," **M.K. Augspurger** (Ag Science Assoc), **VanLear**, **S.K. Cox** (Ag Science Assoc)

and **D.R. Phillips** (U.S. Forest Service).

-- "Vegetative and Small Mammal Response to Low-Intensity Prescribed Fire in Pine and Hardwood Stands," **D.L. Sanders** (Grad Asst), **VanLear** and **Guynn**.

-- "Cherrybark Oak Enrichment Plantings Appear Successful After Seven Years in South Carolina Bottomlands," **Nix** and **Cox**.

-- "Prescribed Burning for Precommercial Thinning in a 4-year-old Loblolly Pine Stand," **T.A. Waldrop** (Research Assoc) and **F.T. Lloyd** (U.S. Forest Service).

-- "Effect of Carbon Dioxide Enrichment on Growth and Field Survival of Container-Grown *Pinus taeda* L. Seedlings," **W.A. Retzlaff** (Grad Asst) and **A.E. Miller** (Asst Prof).

Also at the conference, **B.H. Box** (Acting Vice President, Agriculture and Natural Resources) moderated a session on pine regeneration and **R. Zahner** (Prof) moderated a session on pine-hardwood regeneration.

J.L. Haymond (Asst Prof) presented "Diffusion of Innovations -- A Sociological Approach to the Nonindustrial Private Forests Challenge" at the National Symposium on Current Topics in Forest Research: Contributions by Women Scientists in Gainesville, Fla. Haymond also was a panel member for the U.S. Forest Service Silvicultural Certification review in Atlanta.

A.P. Marsinko (Asst Prof) published "An Opportunity for Profit from Waste Wood" in Journal of Arboriculture.

History

R.M. Golden (Prof) chaired a session, "Lay Religious Activism in Early Modern France," at the annual conference of the Western Society for French History in Baltimore.

J.A. Miller (Assoc Prof, geography) reviewed Henry Munson's The House of Si Abd Allah: The Oral History of Moroccan Family in Research in African Literatures. Miller was elected to the board of directors of the American Institute of Maghrebi Studies in Tunis, Tunisia.

J.L. Arbena (Prof) chaired and commented at the session, "Argentinean Ethnohistory," at the annual meeting of the American Society for Ethnohistory in Charleston. Arbena also chaired a session on "Sport in the Americas" at the Southern Historical Association

convention in Charlotte.

Industrial Education

G.G. Lovedahl (Assoc Prof) and **C.H. Isbell** (Assoc Prof) presented "Introducing CAD Into the Traditional Drafting Classroom" at the American Vocational Association Conference in Dallas.

Isbell was named president-elect of the Southeastern Technology Education Conference.

Industrial Engineering

J.S. Greenstein (Assoc Prof) presented "Ergonomics in the Workplace" to the Piedmont chapter of the American Society of Safety Engineers in Greenville.

C.R. Lindenmeyer (Prof) presented an invited paper, "Clemson's PARATEC Program: A Progressive Partnership With Industry That Works," at the Automated Manufacturing Exhibition and Conference in Greenville. He also presented "How to Conduct a Machine Capability Study in About an Hour" to the Carolina section of the American Society for Quality Control in Greenwood.

Intramural Sports

D. Gaines (Asst Director) and **A. Jones** (Asst Director) presented "Methods of Informing the Campus Community of Intramural Sport Opportunities" at the National Intramural-Recreational Sports Association's Southern Regional Conference in Charleston.

Management

M.J. Stahl (Prof and Head) and **E. Yasin** (Kennesaw College) presented "Managerial Motivation in the Arab Business Culture" at the 1986 Southern Management Association Meeting in Atlanta. The paper appears in the meeting's proceedings.

C.W. McNichols (Prof) received a \$14,000 grant from Zellweger Uster AG to continue his research on user-friendly computer interfaces for textile monitoring equipment.

Marketing

M.C. LaForge (Asst Prof) presented "Spousal Roles in Financial Tasks: A Study of Elderly Husbands and Wives" at

(Continued on next page.)

notes, cont.

the Southern Marketing Association's annual meeting in Atlanta. The paper was published in the proceedings. LaForge also chaired a session on services marketing. At the annual meeting of the Decision Sciences Institute in Hawaii, LaForge presented "An Empirical Investigation of Husband-Wife participation in Financial Decisions in Elderly Families."

Mathematical Sciences

At the invitation of the National Research Council of Italy, **R.E. Jamison** (prof) gave a lecture on "Point Configurations With Determine Few Slopes" at the University of Florence in October.

Jamison also:

- gave a colloquium on "The Geometric Representation of Ordered Sets" at the University of Bern in Switzerland.

- gave a colloquium on "Polychrome Paths in Edge Colored Graphs" at the Technical University of Darmstadt in West Germany.

- gave the invited address, "Geometric Representation of Ordered Sets," at the 33rd Conference on Universal Algebra in Darmstadt.

- presented "Edge-achromatic Number of Complete Graphs" at the Bielefelder Combinatorics Conference in Bielefeld, West Germany.

Mechanical Engineering

J.G. Goree (Prof) presented an invited seminar in the Mechanics and Materials Colloquium series at Texas A&M University. Goree also gave an invited seminar in the Mechanical and Aerospace Engineering Colloquium series at Cornell University. Both presentations were about "Unsymmetric and Singular Behavior in Elastic Stress Fields With Applications to Composite Materials."

J.A. Liburdy (Prof) presented "Resolution Limits for Holographic Velocimetry" at the ICALEO Laser Applications Conference in Arlington, Va.

R.S. Filgola (Assoc Prof) published "Mixed Particle Size Distribution Effects on Heat Transfer in a Fluidized Bed" in Trans. ASME, Series C, Journal of Heat Transfer. The paper was written with D.R. Pitts (Univ of Tennessee) and E.G.

Suarez (Pratt and Whitney).

J.G. Brasseur (Asst Prof) presented "The Spectral Evolution of the Navier-Stokes Equations for Low Order Couplings of Fourier Modes" at the European Turbulence Conference in Lyon, France. Brasseur also presented "Evolution Characteristics of Vortex Rings Over a Wide Range of Reynolds Numbers" at the AIAA/ASME Joint Fluid Mechanics, Plasma Dynamics and Lasers Conference.

C.E.G. Przirembel (Prof and Head) represented the American Society of Mechanical Engineers at the National Congress of Engineering Education in Washington, D.C., organized by the Accreditation Board for Engineering and Technology and sponsored by the National Science Foundation, the National Academy of Engineering, and several corporations and education associations.

Przirembel served as the at-large member on the review panel for the Office of Naval Technology Postdoctoral Fellowship Program, which met in November at the American Society for Engineering Education headquarters in Washington, D.C.

Microbiology

M.J.B. Paynter (Prof and Head) was presented the "Outstanding Microbiologist Award" by the South Carolina branch of the American Society for Microbiology at a joint meeting of the South Carolina, North Carolina and Kentucky-Tennessee branches of ASM in Gatlinburg, Tenn.

Military Science

Sergeant Major Elmer Hubbard retired Oct. 31 with more than 30 years of service. President Max Lennon presented Hubbard a certificate of appreciation in recognition of his service to Clemson.

Nursing

S.E. Barger (Assoc Dean, Professional Services) was elected to a two-year term as secretary of the South Carolina Nurses' Association.

C.L. Lenz (Assoc Dean, Academic Programs) was elected to a two-year term as director of the association.

Parks, Recreation and Tourism Management

M. Uysal (Asst Prof) and J.T. O'Leary (Purdue Univ) published "A Canonical

Analysis of International Tourism" in Annals of Tourism Research.

B.J. Mihalik (Assoc Prof) received \$69,991 from the U.S. Department of the Interior, National Park Service, to conduct a three-phased course for natural resource trainees and to evaluate past trainees' utilization of microcomputers.

F.A. McGuire (Assoc Prof) and **E. Adams** (Grad Stu) published "Older Volunteers and Outdoor Recreation: A Nationwide Study" in Journal of Park and Recreation Administration.

R. Howell (Assoc Prof) presented "Tourism Trends in the Coastal Region of South Carolina" at the mid-winter conference of the South Carolina Sea Grant Consortium in Charleston.

Physics and Astronomy

R.C. Turner (Prof):

- presented workshops on "Toys in Physics Teaching -- Mechanics" and "Toys in Physics Teaching -- Light, Electricity and Magnetism" to the annual convention of the South Carolina Science Council in Columbia.

- has been appointed to the National Committee on Science Education for the Public of the American Association of Physics Teachers.

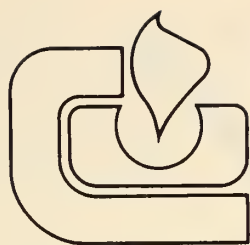
- published "Electron Spin Resonance Used to Measure Polymer Stability" in Textile Research Journal.

- presented a lecture on "Physics and Toys" at Greenville Technical College.

J.R. Ray (Prof) and L. Smalley (Univ. of Alabama) published "Consistency Relations for Spinning Matter in Gravitational Theories" in Physics Review D.

Ray presented three papers at the Southeastern Section of the American Physical Society meeting in Williamsburg, Va.: "Consistency Relations for Spinning Matter in Gravitational Theories" with L. Smalley; "Self-Consistent Einstein-Cartan Theory for Equation of State Spinning Fluids" with Smalley; and "Calculation of Elastic Constants of Silicon Using Molecular Dynamics" with M. Kluge (Univ of Minnesota).

E.K. Graben (former student) and **H.W. Graben** (Prof) published "Simple Example of the Ergodic Hypothesis" in European Journal of Physics. H.W. Graben also published "Volume Exclusion Correction to the Ideal Gas With a Lattice Gas Model" in American Journal of Physics.



Events

INFORMATION FOR THE FACULTY AND STAFF OF CLEMSON UNIVERSITY

This calendar is prepared up to a month in advance. Please send in writing to the MASTER CALENDAR EDITOR, Trustee House, any campus event that should be listed. You also may call 656-4810 to check the UNIVERSITY MASTER CALENDAR for possible scheduling conflicts. (Call the number listed in each entry for more information.)

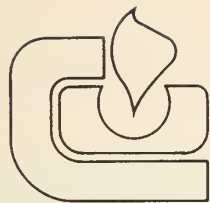
January 16 - 23

- Through Jan. 23 **Exhibit: "The Contemporary Terra Cotta Tile Competition and Exhibition."** Lee Gallery, Lee Hall; 9 a.m. - 4:30 p.m. weekdays, 2-5 p.m. Sundays; free. (Architecture, 656-3081)
- Through Jan. 23 **Library tours:** An orientation to Cooper Library. Tours last about an hour. Times: Jan. 16, 1:30 p.m.; Jan. 19, 3:30 p.m.; Jan. 20, 1:30 p.m.; Jan. 21, 11:15 a.m.; Jan. 22, 7 p.m.; Jan. 23, 11:15 a.m. (Cooper Library, 656-3024)
- Through Feb. 2 **Exhibit: "Paul Maxwell: Paintings and Prints."** Rudolph E. Lee Gallery, Lee Hall; 9 a.m.-4:30 p.m. weekdays, 2-5 p.m. Sundays; free. (Architecture, 656-3081)
- 17 **Men's basketball: Maryland.** 4 p.m., Littlejohn Coliseum. (656-2101)
- 17 **Women's basketball: UNC.** 6:30 p.m., Littlejohn Coliseum. (656-2101)
- 19 **Lecture: "A Media Presentation of Martin Luther King and the King Center,"** by Barbara Tagger of the National Park Service. 7 p.m., Tillman Auditorium, free. (Black Awareness Committee, 656-5376)
- 19 **Lecture: "Myths and Australian History"** by David de Guistino, senior lecturer in history at Griffith University in Australia. 3:30 p.m., 200 Hardin Hall. (History Department, 656-3153)
- 20 **Chamber Music Series: Won-mo Kim.** Violin and piano recital. 8 p.m., Daniel Hall Auditorium, free. (Music Department, 656-3043)
- 20-21 **Conference: Carding and Sliver Preparation.** (Professional Development, 656-2200)
- 21 **Panel discussion: "The State of the Arts at Clemson: Frill or Necessity?"** 4 p.m., 108 Strode Tower, free. (American Association of University Professors, 656-3446)
- 21 **Women's basketball: Georgia Tech.** Littlejohn Coliseum. (656-2101)
- 21 **Film: "Repo Man."** 7:30 p.m., Y-Theatre, \$2. (Five Directions Cinema, 656-3263)
- 22 **Faculty Forum: "What Are Erotica and Pornography and Why Are People Saying Such Terrible Things About Them?"** 4:30 p.m., 108 Strode Tower, free. (Liberal Arts, 656-3263)

Continuous YMCA-sponsored classes in women's and men's fitness, youth fitness, aerobics, teen aerobics, exercise, Jazzercise, social dancing, Middle Eastern dance, swimming and aquacising, gymnastics, lifesaving and after-school day-care and parents' night out programs. (656-2460)

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Newsletter

Vol. 26, No. 19

Information for the Faculty and Staff of Clemson University

JAN 20 1987

Jan. 21, 1987

Briefly...

Nominations due Feb. 12

If you know a student or non-student who has demonstrated outstanding service to the University, you may want to nominate him or her for the 1987 Algernon Sydney Sullivan Award.

Sullivan medallions are given annually to two members of the graduating class and to one non-student in recognition of their influence for good, their excellence in maintaining high ideals of living and their generous and disinterested service to others.

Each letter of nomination should include a resume of the candidate's achievements.

Send your nomination by Feb. 12 to: Jack Stevenson, chairman of the University Scholarships and Awards Committee, 532 Clemson House.

PKP accepting nominations

Clemson's chapter of The Honor Society of Phi Kappa Phi is accepting nominations for faculty, staff, alumni and honorary membership.

The deadline for making such nominations is Feb. 6.

Nominations and supporting materials should be addressed to Jack A. McKenzie, chairman; Faculty, Staff, Alumni and Honorary Member Admissions Committee; Phi Kappa Phi; Trustee House, Clemson University.

For details on membership qualifications, call McKenzie at 656-3861.

Marriage of science and art topic of colloquium Jan. 26

Science and art. They're not usually thought of together, but there is at least one thing they both require: creativity.

Paul Maxwell, an internationally known sculptor, painter and print-maker, will discuss sight and insight and how they are related to art and science next week in several talks during the President's Honors Colloquium.

His major address will be held Jan. 26 at 8 p.m. in Lee Hall Auditorium.

The artist's work is featured in many museum, private and corporate collections.

Maxwell is also known for inventing and having patented his own printmaking medium, an acrylic casting process. His graphics produced with the process have received worldwide attention.

In addition, Maxwell has received acclaim for forming a corporation, PM Stock Co., which sells legal documents that bear his original art.

Maxwell graduated from Principia College with a B.A. degree in art. He continued his education at Claremont Graduate School in California and at the University of Houston, where he was an art instructor for several years and achieved recognition as an art educator.

His expertise in art instruction reached beyond the boundaries of the classroom when the world's first educational television station enlisted Maxwell to produce and host a weekly program to help the general public better understand contemporary art.

Soon after his engagement here, Maxwell will begin a six-month tour of

Australia to exhibit his work and to create new works of art to be shown in 1988 in both Australia and the United States as part of the Australian bicentennial celebration.



Maxwell

In addition to his address on Monday evening, Maxwell will meet with Calhoun College Scholars at an informal reception and seminar Jan. 25 at 7:30 p.m. in the Alumni Center.

He will deliver two other lectures: -- "Beginning in Painting."

Tuesday, Jan. 27; Room 100, Lee Hall; 9-11 a.m.

-- "Marketing Art." Tuesday, Jan. 27; Room 100, Lee Hall; 3:30-5 p.m.

The public is invited to the lectures without charge.

A collection of Maxwell's art will be on display through Feb. 2 in Lee Gallery in Lee Hall. The gallery is open to the public 9 a.m. - 4:30 p.m. weekdays and 2-5 p.m. Sundays.

For more information on the colloquium, call Jack Stevenson at 656-4762.

In Lexington County

Computers help farmers make decisions

"Should I grow corn or soybeans? Both? Neither?

"Should I cut back on the number of acres I farm? Should I increase my acreage? Should I add some hogs?"

These are just a few of the questions facing farmers in South Carolina, and many are looking to the Clemson Extension Service for help in finding the answers.

Extension estimates that up to 35 percent of the state's farmers are in serious financial trouble.

These questions all fall under the label of "financial management," a subject which Bill Jones, Extension agricultural agent in Lexington County, considers the most important in the farming community right now.

He and Betty Baird, county Extension chairman and home economist, are showing farm families how to use the computer to make some of those tough money decisions.

On Feb. 4 Jones and Baird will begin a series of four weekly programs on financial management.

Extension instructors show participants how to use FINPACK, a set of four computer programs developed by the University of Minnesota, concentrating on one section dealing with long-range budgeting.

Each farmer has a private data disk for storing information on farm size, any crops or livestock, production, debts and assets.

"Many farmers are considering cutting back on acreage because of low prices. The computer program helps determine whether any change along that line will pay for itself," Jones said.

"It can compare three different alternative plans at one time and, assuming certain production and price levels, tell which would be the most profitable."

The computer prints out information such as returns on

investment, equity and labor and management. It tells farmers about their cash flow -- net cash position, farm income, cash available for debt payment -- and gives a schedule for debt payment.

"The program gives you an idea of how long you need to finance something, and it tells you what happens if production and income drop 10 percent because of a bad year," said Johnny Jordon, Extension Service

agricultural economist.

Baird tries to make farm families aware of the amount of money it takes for the family to live on, since the household budget is often so integrated with the farm budget.

"We have them begin using a record-keeping system to keep track of what they spend on items such as food, clothing, recreation, furnishings and entertainment over several months," she said.

Writers to share their secrets Feb. 7 at daylong seminar

Faculty, staff and other adults who have dreamed of seeing their own books of poetry or novels on bookstore shelves can learn how to get them published at the Clemson Writers Seminar next month.

The seminar will be held Feb. 7 from 8:45 a.m. to 3 p.m. in Daniel Hall.

The registration fee, \$5 for students and \$10 for others, is due by Jan. 31.

Sponsored by the Sigma Tau Delta English national honor society and the Society of English Graduate Students, the seminar will feature an introduction to creative writing in poetry and literature and tips on getting work published.

The program is designed for Clemson students, faculty and staff, as well as for other college students, teachers and adults who want to know

more about writing.

Several faculty members from the English department are scheduled to give presentations during the seminar, including Bill Koon, head of the department; David Tillinghast; Edward Willey and Mark Steadman, Clemson's writer-in-residence.

Bennie Lee Sinclair of Cleveland, S.C., South Carolina's poet laureate, and Charles Perry, executive director and vice president of Peachtree Publications in Atlanta, also are scheduled to speak.

The featured speaker during the lunch break will be English Professor Claire Caskey. The buffet luncheon will be served at the Clemson House for \$6 per person.

For more information or to register for the seminar, call Marcie Posey at 656-4016 or Betty Cook at 656-5179.



The Clemson University Newsletter is published for Daniel Pervorse, a lecturer in the department of parks, recreation and tourism management, and for all members of the faculty and staff by the Division of University Relations.

University Newsletter Editor Deborah M. Slice
Acting Director, News Services ... Catherine Sams

We welcome your comments and suggestions. Call us at 656-4989 or write us at 103 Fike Center.

Deadline is Jan. 27, noon, for Feb. 4 Issue.



Planting trees -- From left, horticulture students Julie Day of Charleston, Ellen Parsons of Georgetown and Rebecca Bull of Santee plant a Bald Cypress on campus during "Tributes Through Trees." This tree was planted in memory of John E. Day III of Charleston.

Horticulture students plant 21 trees

Twenty-one people were honored here Dec. 5 during "Tributes Through Trees," when students from the horticulture department planted trees to honor individuals or to commemorate special occasions.

"Considering the fact that there has been no money available for landscape improvements in the Physical Plant budget, 'Tributes Through Trees' has made a significant improvement of campus beauty," said landscape architect Andy Anderson.

Trees are still available for dedication throughout the year for a minimum donation of \$30.

The goal of "Tributes Through Trees" was to promote environmental awareness in a way that people will associate with special events or loved ones, said Mary Haque, associate horticulture professor.

Other campus improvement projects sponsored by the horticulture students include designing a campus footpath highlighting points of agricultural significance and attaching labels indicating common and botanical names to more than 70 existing trees.

Abney Foundation support reaches \$2 million level

Abney Foundation support of academic programs at Clemson reached the \$2 million mark in December.

The milestone was achieved when Abney Foundation Vice Chairman William Johnson presented President Max Lennon a check for \$200,000.

Foundation support of academics at Clemson began in 1974. In 1981 the University received \$1 million to create the Abney Chair of Free

Enterprise. The chair was filled in 1982 with the appointment of former Federal Trade Commission economist Robert Tollison.

Previous Abney Foundation gifts to Clemson's scholarship fund, totaling \$730,000, have helped students pursuing careers in the textile industry.

Abney Scholars are selected on the basis of academic promise and financial need.

1987 Holiday Schedule

Spring Break	March 19, 20
Independence Day	July 6
Fall Break	Oct. 26, 27
Thanksgiving	Nov. 26, 27
Christmas	Dec. 23, 24, 25, 28

Dedication set for tomorrow

The ribbon-cutting ceremony for the new S.C. Foundation Seed Association building on campus will be held tomorrow (Jan. 22) at 2:15 p.m. The facility, on Cherry Road beside the Agricultural Services Laboratory, will be open for tours after the program.

Departmental notes

Building Science

R.W. Liska (Assoc Prof) gave a seminar on construction field supervision to the annual state convention of Associate Builders and Contractors in Arkansas.

Chemistry

K. Dill (Assoc Prof) conducted research at the Letterman Army Institute of Research in San Francisco in December. The research involved 33S-NMR spectroscopy; two-dimensional phase-sensitive homonuclear shift correlation spectroscopy; and two-dimensional phase-sensitive, double quantum homonuclear shift correlation spectroscopy.

G.T. Tisue (Assoc Prof) and **R.T. Keel** (Grad Asst) were co-authors of "The Measurement of Zinc in Natural Waters," which Keel presented at the Southeastern Regional Meeting of the American Chemical Society in Louisville, Ky.

Electrical and Computer Engineering

J. Luh (Prof) chaired a session on "Dynamical Modeling of Coordinated Multiple Robot Systems" at Purdue University's Workshop on Coordinated Robot Manipulators in San Diego. He also served as program chairman for the Institute of Electrical and Electronics Engineers' 1987 International Symposium on Intelligent Control in Philadelphia. Luh will be a guest speaker at the Workshop on Space Telerobotics at the California Institute of Technology's Jet Propulsion Laboratory in Pasadena.

History

E.E. Moise (Assoc Prof) reviewed Breakfast with Mao: Memoirs of a Foreign Correspondent by Alan Winnington and Behind the Forbidden Door by Tiziano Terzani in London Review of Books.

R.M. Golden (Prof) reviewed History, Society and the Churches: Essays in Honour of Owen Chadwick, Beales and Best, eds., and Popular Culture and Elite Culture in France, 1400-1750, Muchembled, ed., in Religious Studies Review.

Horticulture

A.R. Kingman (Assoc Prof) and **W.**

Sorrells (Ag Science Asst) conducted a horticulture workshop at the 42nd Annual Georgia Conference on Recreation and Parks in Augusta.

J.W. Kelly (Asst Prof) presented "Alternative Crops or Products for Retail Markets" and **G.A. King Jr.** (Assoc Prof) presented "Successful Marketing -- Farm Products" at the December South Carolina-Georgia Winter Apple Meeting in Clemson.

L.C. Miller (Prof) gave two invited lectures on athletic field turf management to a regional seminar of turf managers at Presbyterian College in Clinton.

Management

M.J. Stahl (Prof and Head) and **M.M. Yasin** (Kennesaw College) presented "Managerial Motivation in the Arab Business Culture" at the Southern Management Association meeting in Atlanta. The paper was published in the proceedings.

Stahl and **K.M. Pirkle** (Old Dominion Univ) presented "An Empirical Test of the Capital Asset Pricing Model for Acquisition Decisions" at the National Decision Sciences Institute meeting in Hawaii. At the same meeting, **Stahl** and **D.W. Parks** (Asst Prof) presented "Modeling Strategic Decisions to Test Porter's Generic Strategies." Both papers were published in the proceedings.

W.H. Hendrix (Prof), **R.P. Steel** (A.F. Institute of Technology) and **A.J. Mento** (Loyola College) have had accepted for publication in Journal of Management their paper, "Constraining Forces and the Work Performance of Finance Company Cashiers."

Mechanical Engineering

R.S. Figliola (Assoc Prof) organized and chaired a symposium on natural convection in enclosures at the annual winter meeting of the American Society of Mechanical Engineers in Anaheim, Calif. Figliola co-edited the published symposium proceedings.

M. Ahmadian (Asst Prof) chaired a session at the same ASME meeting: "Dynamics and Control of Flexible Link Manipulations."

F.W. Paul (Prof) was an invited keynote speaker at the 12th All India

Machine Tool Design and Research Conference held in December at the Indian Institute of Technology in Delhi. His talk was titled "An Emerging Trend -- Industrial Robots as Material Removal Machine Tools." He also visited the Indian Institute of Technology in Bombay and Madras, and the Central Machine Tool Institute in Bangalore, where he gave lectures on industrial robot end-effectors.

Nursing

S.E. Barger (Assoc Dean, Professional Studies) published "Nursing Center: From Concept to Reality" in Journal of Community Health Nursing.

Planning Studies

B. Nocks (Assoc Prof) presented "A Planning Methodology for Community and Institutional Long-Term Care Services in South Carolina" at the annual scientific meeting of the Gerontological Society of America in Chicago.

Plant Industry

H.B. Jackson (Head and State Entomologist) attended the Boll Weevil Technology Transfer Workshop in Phoenix, Ariz., where he presented the Southeastern Boll Weevil Regulatory Activity Report.

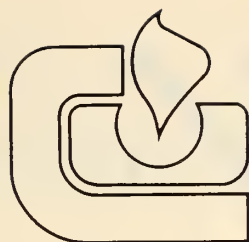
Plant Pathology and Physiology

I.K.A. Ibrahim (Vstg Prof) and **S.A. Lewis** (Prof) published "Interrelationships of *Meloidogyne arenaria* and *M. incognita* on Tolerant Soybean" in Journal of Nematology.

E.I. Zehr (Prof), **Lewis** and **M.J. Bonner** (former Res Assoc) published "Some Herbaceous Hosts of the Ring Nematode (*Criconebella xenoplax*)" in Plant Disease.

Zehr and **J.K. Golden** (Assoc Prof) published "Strip and Broadcast Treatments of Dichloropropene Compared for Controlling *Criconebella xenoplax* and Short Life in a Peach Orchard" in Plant Disease.

J.M. Halbrendt (Vstg Asst Prof) and **V.H. Dropkin** (Univ of Missouri) published "*Heterodera glycines*-Soybean Association: A Rapid Assay Using Prune Seedlings?" in Journal of Nematology.



Events

INFORMATION FOR THE FACULTY AND STAFF OF CLEMSON UNIVERSITY

This calendar is prepared up to a month in advance. Please send in writing to the MASTER CALENDAR EDITOR, Trustee House, any campus event that should be listed. You also may call 656-4810 to check the UNIVERSITY MASTER CALENDAR for possible scheduling conflicts. (Call the number listed in each entry for more information.)

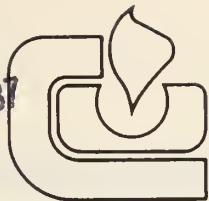
JAN 26 1987

January 23 - 30

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|-------------------|--|
| Through
Feb. 2 | Exhibit: "Paul Maxwell: Paintings and Prints." Rudolph E. Lee Gallery, Lee Hall; 9 a.m.-4:30 p.m. weekdays, 2-5 p.m. Sundays; free. (Architecture, 656-3081) |
| 23 | Library tour. An orientation to materials, facilities and services of the Cooper Library. Tour lasts about an hour. 11:15 a.m. (Cooper Library, 656-3024) |
| 24 | Men's basketball: Duke. 1:30 p.m., Littlejohn Coliseum. (656-2101) |
| 24 | Women's basketball: University of New Orleans. 4 p.m., Littlejohn Coliseum. (656-2101) |
| 25 | "Faith Journey." A musical tribute to the life and goals of Martin Luther King, presented by AFRI Productions of New York City. 8 p.m.; Tillman Hall Auditorium; \$1 for staff, faculty and students, \$2 for the public. (Black Awareness Committee, 656-5376) |
| 26 | President's Honors Colloquium lecture: "Science and Arts: "Sight and Insight" by Paul Maxwell, artist, internationally known painter, sculptor and multimedia printmaker. 8 p.m., Lee Hall Auditorium, free. (Calhoun College, 656-4762) |
| 26 | Men's basketball: Winthrop. 7:30 p.m., Littlejohn Coliseum. (656-2101) |
| 27 | Lecture on energy planning to counter security threats, by Deputy Assistant Secretary of Energy Edward Badolato. 3:30 p.m., Daniel Hall Auditorium, free. (Strom Thurmond Institute, 656-4700) |
| 27 | Last day to order a diploma for May commencement. |
| 27-28 | Conference: "Dyeing: How and Why It Happens." Ramada Inn. (Professional Development, 656-2200) |
| 28 | Retirement planning meetings. 9:30 a.m. or 1 p.m., Senate Chambers. (Personnel Division, 656-3367) |
| 28 | Film: "Fitzcarraldo." (German with English subtitles) 7:30 p.m., Y-Theatre, \$2. (Five Directions Cinema, 656-3263) |
| 28 | Men's basketball: North Carolina. 7:30 p.m., Littlejohn Coliseum. (656-2101) |

Continuous YMCA-sponsored classes in women's and men's fitness, youth fitness, aerobics, teen aerobics, exercise, Jazzercise, social dancing, Middle Eastern dance, swimming and aquacising, gymnastics, lifesaving and after-school day-care and parents' night out programs. (656-2460)

JAN 28 1987



Newsletter

Vol. 26, No. 20

Jan. 28, 1987

Information for the Faculty and Staff of Clemson University

Briefly...

Dropout center gets grant

A gift of \$30,000 from the Exxon foundation will fund a series of conferences to be hosted by Clemson's National Dropout Prevention Center in early 1987.

The conferences will be held in Clemson and Washington, D.C.

The Dropout Prevention Center, established this fall, serves as a clearinghouse for research information on the school dropout problem and on ways to reverse the trend.

The Exxon gift comes on the heels of grants to the center of \$50,000 from the Appalachian Council of Governments and \$25,000 from General Foods Corp.

Call new number for billing information

Dixie Carroll, the motor pool employee who handles everyone's questions about billing for motor pool services, has a new office and phone number.

She has moved from the Physical Plant to the motor pool office, and you can call her now at 656-2436.

YMCA selling fresh fruit

The Clemson YMCA is selling fresh citrus fruit delivered directly from Florida groves.

Choose between white, pink or red grapefruit and Temple oranges.

To order, drop by Holtzendorff YMCA Center or call 656-2460 by Feb. 16. Fruit can be picked up Feb. 20.

Robotics expert wins award

Robotics expert Yuan Zheng, an assistant professor of electrical and computer engineering, has received the state's only Presidential Young Investigator Award for 1987.

He is Clemson's third award-winner in the program's four-year history.

The award is sponsored by the National Science Foundation to help schools attract and keep young Ph.D.s who might otherwise pursue non-teaching careers.

Zheng earned the award for his research in robotics, specifically the development of coordinated robotic arms and legs, which he says will have far-reaching industrial applications in

years to come.

His latest construction is the SD-2, a "new and improved" version of the SD-1 prototype. Although it's not ready for waltzing yet, it can stand on its own and rotate its multiple joints.

Zheng anticipates the robot will be walking forward and backward within the next couple of months, taking one step per second.

The award carries with it an annual grant of \$25,000, renewable for five years. The foundation also will match any additional grants from industry dollar for dollar up to \$37,500 a year.

Zheng was among 200 engineers and scientists selected nationally to receive the honor.



Zheng and graduate student Murali Rao (background) make adjustments on the legs of SD-2.

Save money, make money in new program

Beginning in February, Clemson employees can make money by helping the University save money.

The Employee Suggestion Program, approved by the President's Cabinet this month, will be implemented Jan. 30 and operated as part of the S.C. State Employee Suggestion Program.

"The purpose of the program is to tap the creativity and cost-saving ideas of state employees and provide cash awards and commendations for their suggestions," said Personnel Director Ray Thompson.

"This is the first opportunity we've had to reward our employees for their good ideas," he said.

The program's coordinator will be Dick Simmons, assistant director of personnel.

Thompson said the administration, including Vice President for Business and Finance David Larson and President Max Lennon, have been very receptive to the idea of starting up the program here.

"At a time when the University is looking for every possible way to save money and be more productive, this is one of the most positive incentives we can provide our employees," he said.

If an employee's suggestion for saving money or improving productivity is accepted, he or she will receive a check for 25 percent of the first year's net savings one year after the suggestion is put into effect.

The minimum cash award will be \$50 and the maximum will be \$5,000. Awards of less than \$100 or commendations will be given for suggestions that result in intangible benefits for the University.

Thompson said, so far, the biggest award in the state has gone to an employee of the Department of Highways and Public Transportation. The employee made about \$2,000 by saving the department \$40,000 for a five-year period.

All permanent Clemson employees, with the exception of the

president and vice presidents, are eligible to participate in the new program.

Employee's suggestions must identify a problem or area in which productivity can be improved and must include specific recommendations for improvement.

Suggestions are reviewed and recommended for adoption or non-adoption by three groups: the Employee Suggestion Program Section of the S.C. Division of Human

Resource Management in Columbia, Clemson's Suggestion Review Committee (one representative from each vice-presidential area), and the State Suggestion Review Committee (nine members appointed by the S.C. Budget and Control Board).

The Personnel Division plans to hold meetings to explain the procedures of the new program to faculty and staff members.

Suggestion forms will be available in the Personnel Office.

Staff Commission investigating campus parking problems

Parking -- an issue ranked as the third most important staff concern by the Commission on Classified Staff Affairs' recent interest survey -- was addressed Jan. 13 by Bill Pace, director of parking and vehicle registration.

Pace was invited by the commission to speak at its regular monthly meeting.

He told the group that five changes in parking regulations have been recommended by the Traffic and Parking Committee to the administration in an effort to relieve some of the many parking problems faced by employees and students.

The five are:

- Limit the number of cars one person can have on campus at one time by issuing each employee permanent window decals plus one

removable decal. An employee whose car does not display both decals while parked on campus would be fined.

- Increase parking fines.
- Increase the hours employees and students can park in timed spaces to make better use of all available parking space.
- Allow commuters to park in unrestricted employee spaces after 4:30 p.m. instead of after 5 p.m. This was proposed by students and employees in the College of Education who frequently are on campus for late afternoon and evening classes.
- Vehicles impounded for more than 30 days will be made property of the University.

Pace also said his office and other

(Continued on next page.)



The Clemson University Newsletter is published for Martha Bridges, administrative assistant in the sociology department, and for all members of the faculty and staff by the Division of University Relations.

University Newsletter Editor Deborah M. Slice
Acting Director, News Services ... Catherine Sams

We welcome your comments and suggestions. Call us at 656-4989 or write us at 103 Fike Center.

DEADLINE is Feb. 3, noon, for Feb. 11 Issue.

University welcomes 9 new employees

The University welcomes these new employees who joined Clemson in recent months:

Chemistry: Bruce Randolph, research associate and assistant professor.

Civil Engineering: William Dallis Jr., adjunct assistant professor.

Extension Home Economics: Betty Ramsey, Mattie Rumph, Diane Emer, Georgia Thomas, Brenda Wood, Thomasenia Armstrong, Katha Eagleton, Alice Garrick, Sarah Grant, Celia Haynes, Luanne Long, and Debra McMurray, program assistants.

Financial Management: Anne Popeland, accounting technician.

Industrial Engineering: Delbert Ambler Jr., associate professor.

Mathematical Sciences: John Miller, electrical technician.

Nursing: Peter Koch, visiting instructor.

Telecommunications: Gary Merck, computer technician.

Technical communication lecture series opens Feb. 2

A series of lectures on technical communication by several experts in the field will be held here Feb. 2-5.

Organized by the Bob Campbell Chair of Technical Communications steering committee, the program will feature lectures for faculty as well as presentations open to the public.

The five guest lecturers will be Debra Journet, a former Clemson faculty member who has just won an award for her publication on research in technical communication; Lee Odell, professor of language and communication at Rensselaer Polytechnic Institute; Fred Oettle, head of the National Science Foundation's Young Presidential Investigator program; Bob Russell, president of Russell and Jeffcoat real estate corporation; and Clemson graduate Perry Sprawls, professor of radiology at Emory University.

The scheduled lectures are:

• Feb. 2, 4 p.m., 108 Strode Tower: Odell will speak about the

connections between humanities and technology.

• Feb. 2, 7:30 p.m., Lee Hall Auditorium: Odell will speak about writing in non-academic settings. The lecture will be directed toward students and faculty interested in effective professional writing. Open to the public.

• Feb. 3, 4 p.m., Daniel Hall Auditorium: A panel discussion on the role of technical communication at a land grant university. Open to the public.

• Feb. 3, 7:30 p.m., 108 Strode Tower: Journet will speak about "Research in Technical Communication: Prospect and Retrospect."

• Feb. 4, 10 a.m., Daniel Hall Auditorium: Oettle will conduct a seminar on presenting technical information to experts and non-experts. This presentation should interest any person who would like to improve his or her ability to speak effectively on technical topics to a variety of audiences. Open to the public.

• Feb. 5, 3 p.m., Daniel Hall Auditorium: Russell will present "Be Your Best Self: The Making of a Salesman." Open to the public.

The Bob Campbell Chair of Technical Communications was established in 1986 with a \$1 million gift from Bob and Betsy Campbell of Gaffney.

Through efforts and research by faculty members such as Claire Caskey, Dixie Goswami and Mike Moran in English and Ernest Baxa, Wayne Bennett, Robert Holstead and Dan McAuliff in engineering, Clemson has been active in the technical communications field for several years.

A major accomplishment, funded largely by earlier contributions from the Campbells, is the development of the Effective Technical Communications program for engineering students.

For more information, call Dixie Goswami at 656-5388.

Staff Commission, cont.

campus organizations, including the Student Senate, are studying the feasibility of establishing a transportation system that would allow both employees and students to park in the distant parking lots and catch a shuttle to campus.

In other business, commission chair Pat Padgett said she based her recent report to the President's Cabinet on the interest survey results.

In the report, she listed several items as the commission's 1987 goals:

- reestablishing a question-and-answer column in the Newsletter;
- conducting follow-up surveys on professional development, health insurance, leave policies and the retirement program;

- developing recommendations to the President's Council regarding the leave policy, special tuition rates for employees' family members, and education leave for classified staff;

- reviewing the retirement program and recommending improvements;

- studying the recent administrative assistant/secretarial review conducted by the Personnel Division; and

- recommending a program to help supervisors improve their use of the Employee Performance Management System.

For more information on how the Staff Commission serves Clemson employees or to express a concern, write the commission at campus P.O. Box 2121.

Architecture begins "Fantastik" tradition

On Jan. 9 the College of Architecture held what Dean James Barker called an "experiment in communication."

All Friday afternoon classes were suspended, and faculty, staff and students gathered for a series of exhibitions, lectures and demonstrations not directly related to classwork but to activities that take place in the various college departments.

Billed as "Fantastik First Friday" because it occurred on the first Friday of the semester, the program

attracted about 300 participants.

Among the activities were a workshop in paper making by Assistant Professor Sydney Cross, a demonstration of the computer as an art tool by Professor Sam Wang, a discussion of color theory for computer graphics by Professor Richard Norman, a travelogue of Yugoslavia with Alumni Professor Harold Coledge, a session on music and architecture by Professor Cecilia Voelker and an exhibition of recent projects done in the planning studios.

Dean Barker kicked off the afternoon session with a "State of the College" address, his first opportunity to meet with a large group of students, faculty and staff.

He said that within the College of Architecture there are a number of disciplines, a factor which makes intercollege communication difficult.

Fantastik First Friday, he said, is the first effort in bringing together the various disciplines on a regular basis.

The college plans to hold a similar weeklong program after Spring Break.



Assistant Professor Sydney Cross (left) and student Donna London demonstrate the paper-making process during the College of Architecture's "Fantastik First Friday." Cross' presentation was one of several Jan. 9 when classes were suspended for the afternoon program.

Recital to feature Bach compositions and German "lieder"

The University will present a duet recital featuring tenor Scott McCoy and mezzo soprano Marcia Roberts Feb. 3 at 8 p.m. in Daniel Auditorium.

Admission is free.

The program will include Bach arias and duets and German lieder, or art songs, by Schubert, Schumann, Brahms, Liszt and Mahler.

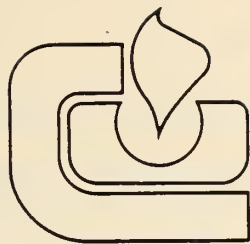
McCoy, an assistant professor of voice at the University of Georgia, has a special affinity for the music of J.S. Bach. He has performed all of the Bach Evangelist roles as well as the B Minor Mass, "Magnificat" and numerous cantatas.

He also was a Performing Fellow with the 1986 Bach Aria Festival and Institute at Stony Brook, New York.

Roberts, a recipient of the National Federation of Music Clubs' Wisconsin Young Artist Award, has compiled an impressive concert and oratorio repertoire.

She has performed with the Goodman Chamber Choir in New York, the Bach Aria Festival at Stony Brook and the Aspen Music Festival.

Roberts recently was awarded a contract to perform Handel's "Israel in Egypt" at Lincoln Center with the American Symphony.



Events

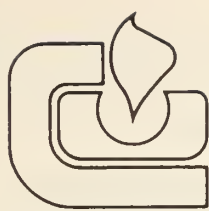
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January 30 - February 6

- Through Feb. 2 **Exhibit: "Paul Maxwell: Paintings and Prints."** Rudolph E. Lee Gallery, Lee Hall; 9 a.m.-4 p.m. weekdays, 2-5 p.m. Sundays; free. (College of Architecture, 656-3081)
- Jan. 30 **Deadline to sign up for the tour of Digital Equipment Corporation** in Greenville. Tour will be Feb. 11 at 1 p.m. Sign up in Freeman Hall, Room 104. (Institute of Industrial Engineers, 656-4716)
- 31 **Wrestling: University of North Carolina.** Jervy gym. (656-2101)
- 31 **Basketball: Virginia.** Women, 1 p.m., Men, 4 p.m.; Littlejohn Coliseum. (656-2101)
- Feb. 2 **Lecture: "The Afro-American Woman: Struggles and Images,"** by Sharon Harley of the University of Maryland. 7 p.m., Tillman Auditorium, free. (Black Awareness Committee, 656-5376)
- 2 **Lecture: "Connections Between Humanities and Technology"** by Lee Odell, professor of language and communication at Rensselaer Polytechnic Institute. 4 p.m., 108 Strode Tower. (Campbell Chair Steering Committee, 656-5388)
- 2 **Lecture: "Writing in Non-Academic Settings"** by Lee Odell. 7:30 p.m., Lee Hall Auditorium. (Campbell Chair Steering Committee, 656-5388)
- 3 **Forum: 2nd annual Gravure Day.** Technical experts from the gravure printing industry will talk about publishing, packaging and specialty printing. 9 a.m.-4:30 p.m., Senate Chambers, free. (Industrial Education, 656-3447)
- 3 **Panel discussion: "The Role of Technical Communication in a Land Grant University."** 4 p.m., Daniel Hall Auditorium. (Campbell Chair Steering Committee, 656-5388)
- 3 **Lecture: "Research in Technical Communication: Prospect and Retrospect"** by Debra Journet, former Clemson faculty member. 7:30 p.m., 108 Strode Tower. (Campbell Chair Steering Committee, 656-5388)
- 3 **Lecture: "Rural Water Supply Information,"** by James Hite of the agricultural economics department. 2 p.m., 104 McAdams Hall. (Charles Carter Newman Chair of Natural Resources Engineering, 656-4084)
- 3 **Recital: tenor Scott McCoy and mezzo soprano Marcia Roberts.** 8 p.m., Daniel Hall Auditorium, free. (Music Department, 656-3043)

(Calendar continued on back.)



Briefly...

Classes will help you top smoking

The College of Nursing is offering a series of "Freedom from smoking" classes beginning Feb. 9.

The six-day series will be held from 4:45 to 5:45 p.m. Feb. 9, 11, 13, 18, 23 and March 2 in Room 111 of the Nursing Building.

The classes, which have been developed by the American Lung Association of South Carolina, are open to a limited enrollment. The cost is \$25.

For more information, call 656-076.

Applications due Feb. 23

Applications for undergraduate scholarships for 1987-88 must be submitted before Feb. 23.

Forms are available in the Financial Aid Office, G01 Sikes Hall.

Students who want to renew their scholarships must reapply by Feb. 23 to maintain eligibility.

For more information about available scholarships, call the Financial Aid Office at 656-2280.

Jazz band to play tomorrow

The Preservation Hall Jazz Band will perform tomorrow (Feb. 5) at 8 p.m. in Tillman Hall Auditorium.

The concert is sponsored by the University Union's Performing Artist Series.

Tickets for the jazz concert are \$5 for students and \$8 for the public.

Call the University Union, 656-2461, for more information.

Juggling teaching and research focus of faculty workshop

A one-day workshop for faculty members on "The Juggling Act: Productive Research and Excellent Teaching" will be held Feb. 21 at the Outdoor Lab.

The program is sponsored by the Teaching Resources and Effectiveness Committee.

All University departments are expected to send a faculty representative elected by his or her colleagues or chosen by the department head. In addition to departmental representatives and members of the hosting committee, up to 10 faculty members can attend.

Names of participants must be received by the committee before Friday, Feb. 6.

"We have planned this workshop in response to Clemson's increased emphasis on research," said Margit Sinka, associate professor of languages and head of the Teaching Resources and Effectiveness Committee.

"We realize that research is very important, but we want to make sure the University's emphases on research and on excellent teaching are balanced."

The day's activities will begin at 9:30 a.m. with the keynote address by President Max Lennon and a question/answer session.

Participants then will take part in one of three small group sessions:

- "Teaching and Research: How Each Influences the Other," led by William Surver, associate professor of biology, and Cecilia Voelker, architecture professor.

- "Developing New Directions," led by Alumni Professor of Electrical Engineering Lewis Fitch and Elisa

Sparks, assistant professor of English.

- "Burnout/Stress/Time Management," led by Ann Wetsel, assistant professor of nursing, and Don Keller, associate professor of education.

The workshop will end with remarks from Sinka; John Wagner, assistant professor of earth sciences; Jane Hurt, associate professor of architecture; and Jo Ellen Edwards, assistant professor of nursing.

For more information about registration, call Sinka at 656-3393.

Order your business cards from UPS

University Printing Services has been awarded the contract to print faculty and staff business cards.

If you want to order business cards, type the information to be included on the cards using the format illustrated in the Jan. 7 issue of the Newsletter and submit it to UPS with a completed work order.

You now can pay for business cards using this format through departmental funds.

Each job will take at least 10 working days to complete, excluding the time it takes you to proofread before printing.

UPS has set the following prices for business cards: \$19 for 100 cards, \$20 for 200, \$21 for 300, \$22 for 400, \$23 for 500, \$24 for 600, \$26 for 700, \$28 for 800, \$30 for 900, and \$32 for 1,000.

For more information about card format or to order a set, call University Printing Services, 656-2041.

Board hears plans at Jan. 17 meeting

Clemson to begin asbestos removal

A \$1-million appropriation from the state bond bill will let Clemson begin its asbestos abatement program, the Board of Trustees was told Jan. 17.

Asbestos removal will begin this summer with Barnett Hall, a women's dormitory.

Jack Wilson, assistant vice president for business and finance, said the \$1 million is only a fraction of what the University will eventually need to rid the campus of all asbestos-containing material.

In July 1986, the board adopted a program to remove asbestos from 72 buildings. The program carries a \$35-million price tag, and construction projects needed to handle reloca-

tion of faculty, staff and students during the process could double that figure.

The board also voted to name the new chemistry building after Howard L. Hunter, who joined the Clemson faculty in 1928 and served as dean of the College of Arts and Sciences from 1955 to 1969.

The board heard optimistic reports on academic quality, fund raising and other matters.

The Educational Policy Committee offered a report from Provost David Maxwell's office as "positive proof that Clemson is already achieving excellence in many academic areas," said committee Chairman Bill Amick.

The report said Clemson ranks seventh across the South in the number of Advanced Placement scores accepted, indicating that a high percentage of high school honors students enroll here with advanced credits each year.

Other statistics in the report included a 155 percent growth rate in the Calhoun College honors program since 1979.

The report also said that 65 percent of Clemson students who apply to medical school are accepted, compared to a statewide average of 54 percent; that 89 percent of Clemson students pass the National Teacher's Examination on the first try; that 94 percent of Clemson's nursing students pass the state board examination on first try; and that the Clemson average on the engineer-in-training exam is 10 percent above the state average.

David Larson, vice president for business and finance, brought the board up to date on the University's efforts to deal with the \$8.2-million budget reduction expected for the coming fiscal year.

"Detailed budget assessments in which each department has been asked to justify all programs have been completed, and we are in the process of meeting with deans of the colleges to determine priorities," Larson said.

"We're looking at permanent budget reductions, and there are no easy answers."

Guidelines set for campus kiosks

Student Government is now in charge of regulating advertising on campus kiosks and will post and remove all materials according to a new set of guidelines.

The group's goal is to provide locations for outdoor University advertising without detracting from the beauty of the campus, said Joy Smith, dean of student life.

She said University employees who use the kiosks must follow Student Government's distribution rules.

Departments may send 30 copies of materials to be posted to the Student Life Office.

Student Life staff will stamp each copy with a removal date, and then Student Government members will post the copies.

Students will clear the kiosks of all outdated and unauthorized materials twice a week.

The guidelines for posting fliers and other materials are:

- Only fliers approved and stamped by Student Life can be posted on a kiosk.
- An organization can place only one flier per kiosk face.

- No posted materials should be covered or removed without authorization.
- Materials are to be placed on the wooden faces of the kiosks.
- Materials can be posted in University housing only in places approved by the Housing Office.
- The Housing staff must approve each advertisement to be posted.
- All outdoor posting must be approved by Student Life.
- Posting in academic buildings must be approved by the appropriate deans or department heads.
- Advertisements cannot be posted on vehicle windshields, trees, trash cans, sidewalks or light poles.



The Clemson University Newsletter is published for Ricky Brink, technical assistant in the Gunnin Architectural Library, and for all members of the faculty and staff by the Division of University Relations.

University Newsletter Editor Deborah M. Slice
Acting Director, News Services ... Catherine Sams

We welcome your comments and suggestions. Call us at 656-4989 or write us at 103 Fike Center.

DEADLINE is Feb. 10, noon, for Feb. 18 issue.

Shedd named employee of the year



Furman Shedd has been named the Physical Plant employee of the year for 1986.

Shedd, who has been with the University for 10 years, is a trades craftsman in the paint shop.

"Furman is a multit talented craftsman," said Walt Stone, director of the Physical Plant. "He is dependable, has a positive attitude and takes pride in his work, which ranges from painting to installing carpet."

Shedd also is responsible for hanging wallpaper, finishing sheetrock and repairing carpet.

Committee funds 31 proposals

Each year the University Research Grant Committee makes research grants from committee funds to faculty.

Thirty-one grant proposals were funded in 1986:

- "Algorithms for Verifying Identities in Right Alternative Algebras": \$496 to **David Pokrass** in computer science.

- "The Use of Carbon Dioxide to Produce a Novel Ice Cream": \$1,000 to **Jonathan Hoskin** in dairy science.

- "The Study of the Chemistry of Organic Molecules Containing Chromium": \$1,000 to **J.L. von Rosenberg** and **A.R. Pinder** in chemistry.

- "Problem-Solving Skill Training for Treatment of Alcohol Abuse in College Students": \$650 to **Janice Williams** in psychology.

- "Regulation of Plant Pigment Biosynthesis": \$1,200 to **Jon Veinstein** in biological sciences.

- "The Senatorial Career of Burnet L. Maybank, 1941-1954": \$477 to **Roger Leemhuis** in history.

- "A Comparison of Group Therapy Approaches to Treating Bulimia": \$1,000 to **Patricia Connor-Greene** in psychology.

- "An Experimental Investigation of Gas Atomization Through the Use of the Hydraulic Analogy": \$1,100 to **Richard Figliola** in mechanical engineering.

- "New Dimensions in the Theater of Post-Franco Spain: Jose L. Alonso de Santos, Fermin Cabal and Alfonso Vallejo": \$750 to **Sixto Torres** in languages.

- "Growing Up Female in the Rural South in the 1920s": \$1,000 to **Rameth Richard Owens** in history.

- "The Development of Form Perception in Infants": \$2,000 to **Benjamin Stephens** in psychology.

- "Development of Novel Instrumentation for Elemental Analysis": \$1,000 to **Kenneth Marcus** in chemistry.

- "Urea Extraction and Characterization of Acrosin from Bovine Spermatozoa": \$1,200 to **Elaine Richardson** in dairy science.

- "Roles and Reciprocity in Lon Fuller's Legal Philosophy": \$1,000 to **Daniel Wueste** in history.

- "Corporate Culture and Codes of Ethics": \$841 to **Stephen Satris** in history.

- "Detection of Alfalfa Mosaic Virus Pseudorecombinants With Complementary DNA Probes": \$1,000 to **O.W. Barnett** in plant pathology and physiology.

- "Reliability and Validity of the Organizational Climate Descriptive Questionnaire": \$900 to **Kay Branum** in nursing.

- "The Effects of Computer Assisted Drafting Instruction on the

Knowledge and Attitudes of South Carolina Drafting Instructors": \$980 to **Gerald Lovedahl** and **Clinton Isbell** in industrial education.

- "The Effect of an Intergenerational Outdoor Challenge Program on the Attitudes of College Students Toward the Elderly": \$630 to **Francis McGuire** in PRTM.

- "Temperature and Light-Level Mediation by Photochromic Fibrous Structures": \$1,000 to **Michael Ellison** in textiles.

- "A New Chemiluminescence Detection Method for Amino Acids and Neurotransmitters": \$800 to **Stan Spurlin** in chemistry.

- "Production of Turkey Interleukin - 2": \$1,500 to **Thomas Scott** in poultry science.

- "Construction of an Apparatus for the Measurement of Surface and Interfacial Energies on Single Fibers": \$1,500 to **Gary Lickfield** in textiles.

- "Hay Storage and Weathering Losses: A Computer Decision Aid for Determining the Economic Feasibility of Alternative Protection Methods": \$1,250 to **Bruce Pinkerton** in agronomy and soils.

- "Superseedling Production": \$1,500 to **John Kelly** in horticulture.

- "The Political Agenda of 'New Right' Televangelists": \$1,000 to **David Woodard** in political science.

- "Agricultural Applications of Computer Vision System": \$1,700 to **Young Jo Han** in agricultural engineering.

- "The Dispersal of Insects in Pure and Mixed Stands of Plants": \$1,200 to **David Tonkyn** in biological sciences.

- "An Investigation of Psychological and Physiological Complications Related to the Frequency of Changing Intravenous Catheter Sites in a Treatment and Control Group": \$1,750 to **Lorraine Fisher** in nursing.

- "Fluorenyl-Lanthanide Complexes as Olefin Polymerization Catalysts": \$1,000 to **Gregory Robinson** in chemistry.

- "Laboratory Simulation of the Atmosphere": \$1,700 to **Ranganathan Kumar** in mechanical engineering.

Departmental notes

Aerospace Studies

Sgt. J.R. Velez (Chief, Administration and Personnel) was named Distinguished Graduate of the Air Force's Non-Commissioned Officer Academy at Barksdale AFB in Louisiana. The six-week academy is designed to broaden the leadership and management skills of selected officers.

Architecture

G. Witherspoon (Prof) took office Jan. 1 as president of the S.C. chapter of the American Institute of Architects. Witherspoon is a past vice president and secretary-treasurer of the state organization, chartered in 1913 to promote the practice of architecture as a profession and the quality of architecture throughout the state.

History

J.L. Arbeno (Prof) published "Sport and the Study of Latin American History: An Overview" in Journal of Sport History.

Industrial Education

D.G. Tesolowski (Assoc Prof) and J.J. Kaufman (Univ. of Idaho) presented "Report of a Study of the Correlation Between Learning Style Preferences and Teaching Style Preferences" at the American Vocational Association's annual convention in Dallas.

Languages

M.M. Sinka (Assoc Prof, German) presented a workshop on Werner Herzog's film, "Stroszek," at the annual Goethe Institute-sponsored summer camp for German instructors in July in Helen, Ga.

M. Cranston (Prof, French) published solicited reviews of Roland Busselen's Passages: Poemes 1959-1984 and Michael Bishop's The Contemporary Poetry of France: Eight Studies in World Literature Today.

S.E. Torres (Asst Prof, Spanish) reviewed Ramon Perez de Ayala's El ombligo del mundo in Revista de Estudios Hispánicos and Raul Hernandez Viveros' Una mujer canta amorosamente in Circulo: Revista de Cultura.

Torres presented:

- "Post-Franco Theater: Martin Recuerda's New Drama" at the Cincinnati Conference on Romance Languages and Literatures at the University of Cincinnati.

At the conference he also chaired a session titled "Nuevas Aproximaciones a la Poesia Espanola Moderna."

- "Martin Recuerda's Carteles rotos: A Postista Vision of Recent Spain" at the 36th Mountain Interstate Foreign Language Conference at Wake Forest University. At the conference, he also chaired a session titled "Spanish Literature XIX: Twentieth Century."

- "New Dimensions in Martin Recuerda's Recent Thea" at the South Atlantic Modern Language Association meeting in Atlanta.

News Services

C. Sams (Acting Director) received the Grand Award for Excellence in News Writing from the Council for the Advancement and Support of Education (CASE) District III for coverage of Clemson research.

Nursing

J.A. Milstead (Asst Prof) presented "Dimensions of Wellness of a University Faculty and Staff" at the Mid-South Nursing Research Conference in Memphis, Tenn., sponsored by the University of Tennessee, the Kellogg Foundation, Sigma Theta Tau and Memphis State University. Milstead also was appointed to a four-year term as vice president of the S.C. State Board of Nursing by Gov. Dick Riley. The board is responsible for regulating the practice of nursing in the state and approving all state nursing programs.

J.B. Edwards (Asst Prof) and P.A. Townsend (Instr) presented "Perceived Support for First-Time Parenting Over 35" at a conference sponsored by the Greenville (S.C.) Area Health Education Center. Edwards also presented "Issues in Female Patient/Male Physician Communication" at the Second International Congress on Women's Health Issues in Nova Scotia.

L.R. Fisher (Asst Prof) presented "DACUM: A Method of Identifying Competencies for Technical Nursing" at the nursing research conference sponsored by the Greenville Hospital System and the Greenville Area Health Education Center.

Plant Pathology and Physiology

L.W. Baxter Jr. (Prof), P.A. Mitchell (former Ag Science Assoc) and S.G.

Fagan (Ag Science Asst) published "Cutting Back Camellias" in Atlantic Coast Camellias.

Political Science

M.A. Morris (Prof) chaired a session "Great Power Relations With the Southern Cone States," at the 13th International Congress of the Latin American Studies Association in Boston. Morris also translated for the Argentine legislator, Ricardo Alagia, at the conference. Morris arranged for two Argentine scholar/practitioners to lecture at Clemson and the University of South Carolina in October.

Public Safety

B. Patterson (Security Officer) was named 1986 University Police Employee of the Year by the department, and J.D. Gowan (Patrol Officer) was named 1986 University Police Officer of the Year.

Sociology

S. Kenig (Asst Prof) was invited to serve as a member of the National Research Council's Graduate Fellowship Evaluation Panel in Behavioral and Social Sciences to review National Science Foundation fellowship requests in February.

B.J. Vander Mey (Asst Prof) has been appointed to a two-year term on the Editorial Advisory Board of Sociological Inquiry, the journal of the international sociology honorary society, Alpha Kappa Delta.

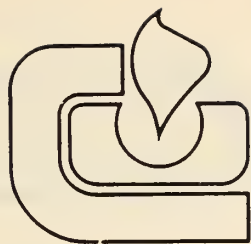
Student Life

J. Smith (Dean) and B. Stevens (Asst Dean) presented workshops at the annual conference of the Southern Association of College Student Affairs in Orlando, Fla.

K. Brague (Assoc Dean) chaired one of the program committees for the conference, and M. Schardein (Asst Dean) and A.C. Lewis (Asst Dean) attended the conference.

Textiles

M.S. Ellison (Asst Prof) presented an invited talk, "The Effects of Commercial Heat Setting on the Structure and Properties of Polyester Carpet Yarn," at the annual meeting of the American Chemical Society in California. The paper also was presented by co-author D.L. Culterson (former grad student) at the Fiber Producers Conference in Greenville.



INFORMATION FOR THE FACULTY AND STAFF OF CLEMSON UNIVERSITY

This calendar is prepared up to a month in advance. Please send in writing to the MASTER CALENDAR EDITOR, Trustee House, any campus event that should be listed. You also may call 656-4810 to check the UNIVERSITY MASTER CALENDAR for possible scheduling conflicts. (Call the number listed in each entry for more information.)

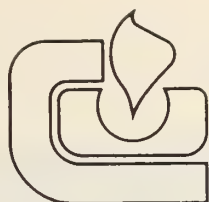
February 6 - 13

- Through Feb. 11 **Registration for Intramural water polo and soccer teams.** Room 251, Fike Recreation Center, 8:30 a.m.-4:30 p.m. (656-2116)
- 6 **Meeting: University Honors Committee.** 2 p.m., 102D Tillman Hall.
- 7 **Clemson Writers Seminar.** 8:45 a.m.-3 p.m., Daniel Hall. (Sigma Tau Delta and Society of English Graduate Students, 656-4016 or 656-5179)
- 7 **Women's basketball: Maryland.** 2:30 p.m., Littlejohn Coliseum. (656-2101)
- 7 **Men's basketball: South Carolina.** 5 p.m., Littlejohn Coliseum. (656-2101)
- 8 **Film: "Deliverance."** 7 and 9:15 p.m., Y-Theater, free for students and \$1 for the public. (University Union, 656-2461)
- 8-March 1 **Short course: Beginning Calligraphy.** 6 p.m. Sundays, \$16. (University Union, 656-2461)
- 9 **Lecture: "Report of the Commission on the Future of the South,"** by Jesse White, executive director of the Southern Growth Policies Board. 3:30 p.m., Lee Hall Auditorium, free. (College of Architecture and the Strom Thurmond Institute, 656-4700)
- 9 **Women's basketball: Duke.** Littlejohn Coliseum. (656-2101)
- 9 **Classes on "Freedom from Smoking"** begin. 4:45-5:45 p.m. Feb. 9, 11, 16, 18, 23 and March 2; Room 111 of the Nursing Building; \$25. (College of Nursing, 656-3076)
- 9 **Meeting: Professional Secretaries International.** 7 p.m., social room at Shoney's restaurant on Highway 123. (656-2249)
- 9 **Lecture: Richard Haag, professor and founder of the landscape architecture program** at the University of Washington in Seattle, will speak about the field of landscape architecture. 8 p.m., Lee Hall Auditorium. (College of Architecture and Horticulture Department, 656-4958)
- 9-March 9 **Third Clemson National Print and Drawing Competition and Exhibition.** 9 a.m.-4:30 p.m. weekdays, 2-5 p.m. Sundays; Rudolph E. Lee Gallery, Lee Hall; free. (College of Architecture, 656-3081)
- 10-12 **Conference: Fundamentals of Textiles.** (Professional Development, 656-2200)

(Continued on back.)

- 10-12 **Meeting: 36th Annual Pesticide School.** Ramada Inn, \$35. (Plant Pathology and Physiology, 656-3451)
- 10-March 17 **Prepared childbirth classes.** 7 p.m. Tuesdays, Nursing Center. (College of Nursing, 656-3078)
- 10 **Meeting: Faculty Senate.** 3:30 p.m., Senate Chambers. All faculty welcome.
- 10 **Film: "True Grit."** 7 p.m., Y-Theater, \$1. (University Union, 656-2461)
- 10 **Short course: Rape Prevention.** 7 p.m., 905 University Union, free. (University Union, 656-2461)
- 10 **Entertainer Rick Kelley.** 8 p.m., Edgar's, \$1. (University Union, 656-2461)
- 11-13 **Workshop: "Graphic Arts and CAD/CAM Conference."** (Professional Development, 656-2200)
- 11 **Tour of Digital Equipment Corporation.** 1 p.m. (Institute of Industrial Engineers, 656-4716)
- 11 **Meeting: Women In Higher Education.** Becky Joe Clark, financial planner with IDS American Express, will speak on "Women and Investments." Noon, Golden Corral restaurant on Highway 123.
- 11 **Film: "Throne of Blood."** 7:30 p.m., Y-Theater, \$2. (University Union, 656-2461)
- 12 **University Club "Apres le Travail" social.** 4:30 p.m.; Alumni Center; \$2 for members, \$3 for non-members. Musical entertainment provided by Paula Heusinkveld, assistant professor of Spanish and French. All staff and faculty members are welcome. (656-2345)
- 12 **Concert: Pianists "Delphin and Romain."** 8 p.m.; Tillman Hall Auditorium; \$6 for adults, \$2 for children, free for students. (Music Department, 656-2153)
- 12-13 **Edgar's entertainment: The Heartfixers.** 9 p.m., \$3. (University Union, 656-2461)
- 12-14 **Film: "Jumpin' Jack Flash."** 7 and 9:15 p.m., Y-Theater, \$1.50. (University Union, 656-2461)

Continuous YMCA-sponsored classes in women's and men's fitness, youth fitness, aerobics, teen aerobics, exercise, Jazzercise, social dancing, Middle Eastern dance, swimming and aquacising, gymnastics, lifesaving and after-school day-care and parents' night out programs. (656-2460)



Newsletter

Vol. 26, No. 22

Feb. 11, 1987

Information for the Faculty and Staff of Clemson University

Briefly...

Ridley wins award

John Ridley, an Extension Service horticulturist and associate professor, has received an award from a national organization for his contributions to the peach industry.

The National Peach Council presented the award to Ridley during the council's convention Feb. 3.

Ridley was cited for outstanding contributions to the industry and for service to the council, an industry-wide group involved in promotion and marketing of peaches.

Make award nominations by Feb. 20

This spring the Honors and Awards Committee will award a \$2,000 scholarship to a student who shows excellent leadership qualities and has an outstanding academic record.

In addition, a \$1,000 cash award will be given to an academic or organization adviser who has excelled in developing students in the areas of leadership, devotion to duty and service to fellow students.

Both of these prestigious awards have been made possible by an endowment established by Frank A. Burtner, who served Clemson for many years as a professor and adviser to numerous student groups.

For more information or to nominate a student or adviser for the awards, call Teresa Evans, assistant dean of student life, at 656-5994.

The deadline for submitting nominations is Feb. 20.

Larson wants to know

FEB 12 1987

Will employees support a transportation system?

The new parking system proposed by the Office of Business and Finance and described in part in The Tiger Jan. 24 has been a hot topic of conversation on campus lately.

Some students and staff and faculty members applaud the administration for making progress toward improving the current parking situation, and others don't understand why they suddenly may be charged for parking places that have been available to them free for years.

Well, David Larson wants to hear your comments.

"Clearly there is a consensus that the (parking) situation needs to be corrected, although quite obviously many individuals do not want to have to pay for correcting the problem," said the vice president for business and finance.

"The one thing that stands out is that we need a transportation system to improve the utilization of our lots," he said.

Because the University is facing such a large budget cut for the 1987-88 fiscal year, Larson said nothing can be done to improve parking using general funds.

"We need to generate additional revenue to pay for a transportation system and for redesigning parking lots to hold more cars, if everyone agrees we need those improvements," he said.

According to Larson's proposal, a shuttle system would make using the lots along the perimeter of campus a little more attractive to both students and employees.

If more people park in the outlying areas of campus, Larson said, traffic flow would improve and fewer people would violate the parking code and create problems for everyone else.

Larson said there are several misconceptions about the proposal spreading across campus. He explained in more detail some of the issues employees are concerned about:

- The parking issue will be addressed in three steps. 1) Larson wants to know whether or not employees and students think a transportation system will help improve parking and whether or not they are willing to pay for the system. 2) If everyone agrees, a consultant will be brought in to help design a transportation system; and 3) another consultant will be brought in to help redesign the parking lots.

Each step, Larson said, will require employee and student suggestions and approval.

- The shuttle schedule will be efficient enough to accommodate employees and students at the "rush hours," Larson said. Specific schedules and routes will not be set until staff, faculty and student groups have made suggestions.

- The price of parking decals will be \$15 per month for reserved parking close to office buildings, \$15 per semester for general parking on campus, and \$5 per semester for perimeter parking.

- Employees and students will not

(Continued on next page.)

transportation system, cont. _____

be competing for parking spaces. Employees will have the first shot at reserving spaces in what are now employee lots, and students will have first shot at what are now student lots.

For example, if only 400 spaces in an employee lot with 500 available spaces are reserved by employees, students then would have an opportunity to reserve the remaining 100 spaces.

- People with reserved space decals can park in reserved, general or perimeter lots; people with general space decals can park in general or perimeter lots; and people with perimeter space decals can park only

in perimeter lots.

- If a reserved lot has 500 spaces, only 500 people will be given decals for that lot.

- After 5 p.m. and on weekends, you will be able to park in any lot, regardless of what decal is on your car.

- Parking lots, such as the one behind Sikes Hall, will have metered, handicapped and general spaces available for visitors, employees and students conducting business in nearby buildings, Larson said.

- The new system will have no effect on the athletic department's use of parking lots during home ball games.

Larson said that similar transportation systems have been successful at neighboring universities.

Annual parking fees for employees range from \$12 for perimeter lots at the University of Georgia to \$192 for access to all lots at the University of North Carolina at Chapel Hill.

"We recognize employees and students are concerned about parking just as they are concerned about what they might have to pay for parking," Larson said.

"I want to hear employees' and students' ideas so we can work together to find the best solution to our parking problems."

Send your comments to David Larson in the Office of Business and Finance, 206 Sikes Hall, or contact your representatives on the Commission on Classified Staff Affairs or the Faculty Senate.

State co-ops join Clemson research group

The South Carolina Electric Cooperative Association, with headquarters in Cayce-West Columbia, has joined the Clemson University Electric Power Research Association to support research aimed at improving efficiency of utility operations.

The association serves as a state-wide trade organization for the 20 rural electric distribution systems and two generation and transmission cooperatives that do business in South Carolina.

On behalf of the association, Clemson alumnus Charles Dalton, general manager of the Blue Ridge Electric Cooperative in Pickens, presented a check for \$15,000 to the electrical and computer engineering department for the first year's membership.

The electric co-ops, which provide electrical service to approximately 1 million S.C. residents, join five utility companies in the Southeast that are members already.

The research association has helped the power systems program at Clemson develop at a rapid pace, said department head Wayne Bennett.

Author to talk about Harlem Renaissance

Jim Haskins, the author of "The Cotton Club," which inspired the motion picture of the same title, will speak here Feb. 16.

Sponsored by the Black Awareness Committee, Haskins' lecture on the Harlem Renaissance will be held at 7 p.m. in Tillman Hall Auditorium. Admission will be free.

Author of more than 50 publications for adults and young adults, he has won recognition for many of his books:

- "The Story of Stevie Wonder," biography for young people, won the Coretta Scott King Award in 1976.

- "The Life and Death of Martin Luther King Jr." was named a Notable Book in the Field of Social Studies in 1978.

- "Scott Joplin: The Man Who Made Ragtime" won the ASCAP Deems Taylor Award in 1979.

Haskins will talk about the post-World War I Harlem Renaissance and its effects on blacks throughout the country.

Harlem then had the single largest population of blacks outside of Africa and was the center of the rebirth of black history and culture, including art, music, writing and theater, said Lewis Suggs, assistant professor of history.

For more information, call Suggs at 656-5376.



The Clemson University Newsletter is published for We Green, Housing's custodian of the month for November, and for all members of the faculty and staff by the Division of University Relations.

University Newsletter Editor Deborah M. Slice
Student News Writer Robert Parris
Acting Director, News Services ... Catherine Sams

We welcome your comments and suggestions. Call us at 656-4989 or write us at 103 Fike Center.
DEADLINE is Feb. 17, noon, for Feb. 25 issue.



Emerson Mayor Larry Abernathy, left, and Vice President for Student Affairs Nick Lomax, right, fill their plates at the C-Ration Banquet Jan. 15. About 35 people attended the banquet sponsored by Army ROTC and the food science department. Pictured in the background is Walter Castro, assistant dean of the College of Engineering.

Apply now for Provost Award

If you're a faculty member with a tenured or tenure-track title, now is the time to apply for a \$2,000 Provost Research Award. Send your application to the Office of University Research by March 23.

The University Research Grant Committee (URGC) annually presents 25 awards by April 15. You may not receive more than one award in any five-year period.

Provost Research Awards are made to encourage the initiation and completion of research activities. You may use the funds for any research-related costs consistent with state and University fiscal procedures, except publication, computer and meeting costs.

You must use the funds within the July-June fiscal year, but not before July 15. You may use them as salary only during the three-month summer pay period.

Applications, which must not be made for less than \$2,000, will receive a blind, non-peer URGC review. The committee will consider such things as compliance with instructions and research objectives, research feasibility and research significance.

If you receive an award, plan to file a report with the URGC covering the use of funds, your research accomplishments and plans for the continuation or completion of the research project.

For more information or to request application forms, call 656-2375.

Piano duo to play here Feb. 12

The piano team of Delphin and Romain, artists-in-residence at the College of Charleston, will perform Feb. 12 at 8 p.m. in Tillman Hall Auditorium.

Admission to the concert, sponsored by the University Concert Series, is by season ticket. Individual tickets (\$6 for adults and \$2 for children) will be on sale at the door. Students will be admitted free.

Wilfred Delphin and Edwin Romain are celebrating their 10th year as a professional team, although their partnership goes back to their student days at New Orleans' Xavier

University.

Since then they have appeared with many of the nation's leading orchestras, including the New York Philharmonic, the Cleveland Orchestra and the Atlanta Symphony. They also have performed at Carnegie Hall, the Kennedy Center and at Charleston's annual Spoleto Festival.

The artists' program Thursday night will include Moscheles' "Homage to Handel," the Fantasy in F Minor by Schubert, Franz Liszt's "Reminiscences de Don Juan," "Aria and Toccata" by Dello Joio and Poulenc's Sonata for Two Pianos.

Clemson helps Alaska survive crunch

In an effort to deal with a state budget cut equal to many states' total budgets, Alaska turned to Clemson's Center for Policy Studies for advice.

Center Director Roger Meiners, Commerce and Industry Dean Ryanmacher and Center Research Scholar Roger Miller traveled to

Alaska Jan. 30 to discuss tax alternatives with the state's leaders.

"More than 90 percent of Alaska's state government revenues comes from the oil industry, so the fall in the price of oil has had a tremendous impact on the state's income," said Meiners.

"THE WIZ"

Who?	Clemson Players
When?	Feb. 19, 20 and 23 at 8 p.m.; Feb. 21 and 22 at 2 p.m.
Where?	Daniel Hall Auditorium
How Much?	\$1 for faculty and staff; \$2 for the public, free for students.

For reservations, call 656-2476.

Departmental notes

Agricultural Engineering

G.D. Christenbury (Prof) presented four papers at the 32nd Tobacco Workers Conference in Baltimore: "Operational Characteristics of Wood-Fired Hot Water System for Curing Tobacco," with **F.C. Patten** (Instr) and **D. McDowell**; "Moisture Contents of Marketed Tobacco," with **J.G. Alphin** (Prof) and **McDowell**; "Electro-Mechanical Control Panel for the Clemson University Automatic Cord-Wood Feeder/Burner," with **Alphin**; and "Air Flow Rate Effects in Curing Non-Uniformly Packed Tobacco," with **Alphin**, **Patten** and **J.B. Pitner**.

J.R. Lambert (Prof) presented "Expert Systems in Crop Management" at the S.C. Council of Engineering Societies annual joint meeting in Columbia.

C.V. Privette (Assoc Prof) presented "Low Volume Irrigation of Vegetable Crops" at the Conservation Technology Conference on Drip, Trickle and Other Micro-Irrigation Systems for South Carolina Farmers in Columbia.

D.L. Roberts (Prof) gave an invited presentation, "Machinery Accidents: Actions to Decrease Your Patient Load," to the Carolina's Occupational Medical Association in Columbia. Roberts also has been selected to serve three-year terms on the board of directors of the Palmetto Safety Council and of the National Institute for Farm Safety.

C.E. Hood (Prof) presented an invited paper, "Prime Mover Concepts," at the International Irrigation Exposition and Technical Conference in San Antonio, Texas, with **R.E. Williamson** (Prof) and **R.E. Young** (Prof). He also presented "Straddle Vehicles for Horticultural Crop Production: A Review" with **Williamson**. Hood received a patent for a bulb, root and leafy vegetable harvester Dec. 16 with **Williamson** and **A. Margolin**.

T.R. Garrett (Instr) and **Young** presented "Controlled Traffic Cropping Systems for Management of Soil Compaction Symposium" at the 22nd International Horticultural Congress in California.

T.H. Garner (Prof) presented "Subsoiling Depth Decision Model-Experience During a Dry Year" at the Cotton Engineering Systems (Beltwide Cotton Research) Conference in Dallas.

D.L. Linvill (Assoc Prof) presented "National Weather Service Cooperative Extension Service Weather Programs" at

the American Society of Agronomy meeting in New Orleans.

D.J. Smith (Ag Science Assoc) presented at the same meeting "Simulation of Alfalfa Yield and Growth Using a Non-Linear Moisture Stress Reduction Factor" with **S.E. Taylor** and **R.H. Shaw** (Iowa State).

Smith and **Young** presented "How to Beat the Common Cold: Freeze Protection Plastic Structure for Ornamental Nursery Plants" at the Nursery Conference in Charleston.

Animal Science

T.C. Jenkins (Asst Prof) gave invited presentations on the effects of lipid on fiber digestion by ruminants at a symposium held in conjunction with the Cornell Nutrition Conference in Syracuse, N.Y., and at Kodak's animal research facility in Kingsport, Tenn.

Bioengineering

R.L. Dooley (Prof) presented an invited paper, "Expert Systems in Orthopedic Surgery," at the Conference on Applications of Expert System Technology at Columbia University. **Dooley** and **D. Powers** (Assoc Prof) received a \$29,535 contract from U.S. Surgical Corporation to conduct biocompatibility studies on innovative biomaterials.

Biological Sciences

D.G. Heckel (Assoc Prof) and **G.J. Rice** (Grad Stu) presented "Effects of Inbreeding on Components of Fitness in the Tobacco Budworm *Heliothis virescens*" at the annual meeting of the Entomological Society of America in Reno, Nev.

Chemistry

A.L. Kholodenko (Asst Prof) presented a talk, "The Gap Problem for the Hubbard Chain," at the 56th Conference on Statistical Mechanics at Rutgers University. **Kholodenko** also published "A New Real-Space Renormalization Group Method for Interacting Fermions at Finite Temperatures" in Journal of Physics.

Civil Engineering

J.E. Clark (Prof) presided at the Conference on Traffic Management and Planning for Freeway Emergencies and

Special Events and was session chairman for a technical session on information systems and service needs for older travelers at the annual meeting of the Transportation Research Board in Washington.

R.H. Brown (Prof and Head) presented "Inadequacy of Property Specification in ASTM C270" at a symposium of the American Society for Testing and Materials in New Orleans. Co-authored with **G.C. Robinson** (Prof, ceramic engineering), the paper will appear in the conference proceedings.

Brown also attended the Second Joint Technical Coordinating Committee on US/Japan Cooperative Masonry Research in Keystone, Colo. There, he presented "Properties of the Compressive Stress Distribution of Grouted Hollow Brick Masonry," which also appeared in the proceedings.

This research is part of a National Science Foundation-sponsored coordinated international research effort.

Earth Science

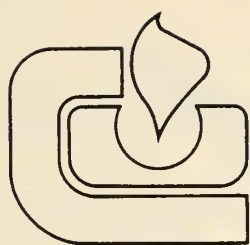
C.G. Maples (Vstg Asst Prof) published "Revised Paleogeological and Paleoenvironmental Interpretations Result From Early-Diagenetic Concretions in Pennsylvania Shales" in Palaaios.

R.D. Warner (Assoc Prof), **V.S. Griggs Jr.** (Prof), **R.C. Hoover** and **J.G. Bryar** (former undergrad students) and others published "Mineralogy of Ultramafic Chlorite-Amphibole Schists, Inner Piedmont Belt, South Carolina" in Southeastern Geology.

Elementary and Secondary Education

W. Leonard (Prof) published "A Laboratory Activity to Teach Ecosystem Energetics" in American Biology Teacher and "Accommodating Underprepared Students" in Journal of College Science Teaching.

R.D. Hefley (Asst Prof) published "Psychomotor Learning Skill Performance" in South Carolina Journal of Health, Physical Education, Recreation and Dance and "Psychomotor Performance of Medicated and Non-Medicated Hyperactive, Emotionally Handicapped Children and Normal Children" in The American Corrective Therapy Journal.



Events

INFORMATION FOR THE FACULTY AND STAFF OF CLEMSON UNIVERSITY

This calendar is prepared up to a month in advance. Please send in writing to the MASTER CALENDAR EDITOR, Trustee House, any campus event that should be listed. You also may call 656-4810 to check the UNIVERSITY MASTER CALENDAR for possible scheduling conflicts. (Call the number listed in each entry for more information.)

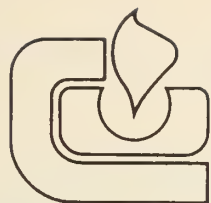
February 13 - 20

- Through March 9 **Thrd Clemson National Print and Drawing Competition and Exhibition.** 9 a.m.-4:30 p.m. weekdays, 2-5 p.m. Sundays; Rudolph E. Lee Gallery, Lee Hall; free. (College of Architecture, 656-3081)
- 12-13 **Edgar's entertainment: The Heartfixers.** 9 p.m., \$3. (University Union, 656-2461)
- 12-14 **Film: "Jumpin' Jack Flash."** 7 and 9:15 p.m., Y-Theater, \$1.50. (University Union, 656-2461)
- 15 **Deadline** for scholarship applications.
- 15 **Film: "The Bad News Bears."** 7 and 9:15 p.m., Y-Theater, \$1 for public and free for students. (University Union, 656-2461)
- 15 **The Sixth Annual Gospel Explosion:** a concert by the University Gospel Choir. 8 p.m., Tillman Hall Auditorium, free. (Black Awareness Committee, 656-5376)
- 16 **Seminar: "Another Look at the Christadelphians"** by religion Professor Chuck Lippy. 3:30 p.m., 202 Hardin Hall. (History Department, 656-3153)
- 16 **Film: "Flammende Herzen"** (for mature audiences only). 3:30 p.m., 106 Daniel. (Liberal Arts, 656-3263)
- 16 **Lecture: Terence LaNoue, painter.** 8 p.m., Lee Hall Auditorium, free. (College of Architecture, 656-3883)
- 16 **Lecture: "Harlem Renalssance"** by Jim Haskins, author of "The Cotton Club" and "The Life and Death of Martin Luther King Jr." 7 p.m., Tillman Hall Auditorium, free. (Black Awareness Committee, 656-5376)
- 16 **Film: "My New Partner."** 1985, French with English subtitles. 7:30 p.m., 313 Daniel Hall. (Liberal Arts, 656-3263)
- 16-19 **Short course: Beginnng Shagging.** 7:15-8:30 p.m., \$10. (University Union, 656-2461)
- 16-25 **Reglstration: Intramural racquetball,** singles and doubles. 8:30 a.m.-4:30 p.m., 251 Fike Recreation Center. (656-2116)
- 17-18 **Conference: Dyeing Workhorse Fabrics.** Ramada Inn. (Professional Development, 656-2200)

(Continued on back.)

- 17-25 **Short course: Snorkeling.** Tuesdays and Wednesdays, 7-9 p.m., \$15. (University Union, 656-2461)
- 17 **Camp Placement Day** for students interested in summer positions in residential camps, conference centers and resorts. 10 a.m.-5 p.m., Palmetto Ballroom. (Parks, Recreation and Tourism Management, 656-7502)
- 17 **Lecture: "Ground Water Issues In the Coastal Region of South Carolina"** by Drennan Park of the S.C. Water Resources Commission. 3:30 p.m., 104 Newman Hall, free. Sponsored by the Charles Carter Newman Chair of Natural Resources Engineering. (656-4084)
- 17 **Film: "Flammende Herzen."** 7:30 p.m., 106 Daniel Hall. (Liberal Arts, 656-3263)
- 17 **Film: "The Fly."** 7 p.m., Y-Theater, \$1. (University Union, 656-2461)
- 18 **Film: "Videodrome."** 7:30 p.m., Y-Theater, \$2. (Five Directions Cinema, 656-3263)
- 18 **Lecture: "Interviewing Techniques"** by Tom Henry of Piedmont Personnel in Greenville. 7 p.m., 300 Riggs Hall, free. (Institute of Industrial Engineers, 656-4716)
- 18 **Women's basketball:** South Alabama. 5 p.m., Littlejohn Coliseum. (656-2101)
- 18 **Men's basketball:** Wake Forest. 7:30 p.m., Littlejohn Coliseum. (656-2101)
- 19-21 **Film: "The Fly."** 7 and 9:15 p.m., Y-Theater, \$1.50. (University Union, 656-2461)
- 19-23 **Play: "The Wiz,"** a musical presented in conjunction with the Clemson Players and directed by Tony Evans. 8 p.m. Feb. 19, 20 and 23; 2 p.m. Feb. 21 and 22. Daniel Hall Auditorium; \$2 for public, \$1 for faculty and staff, free for students. (For reservations, call 656-2476)

Continuous YMCA-sponsored classes in women's and men's fitness, youth fitness, aerobics, teen aerobics, exercise, Jazzercise, social dancing, Middle Eastern dance, swimming and aquacising, gymnastics, lifesaving and after-school day-care and parents' night out programs. (656-2460)



Newsletter

Vol. 26, No. 23

Feb. 18, 1987

Information for the Faculty and Staff of Clemson University

FEB 18 1987

Briefly...

Wise begins here May 1

Dr. Milton Wise, who has been named vice president and vice provost for agriculture and natural resources, will take his new post May 1.

In the News Special distributed Feb. 6, his start date was reported correctly.

Nominations welcome

The Honorary Degree Committee is accepting nominations of persons to be considered for honorary degrees, said Provost David Maxwell.

To nominate someone, send the candidate's name and supporting documentation to Honorary Degree Committee, Provost's Office, 206ikes Hall.

Housing helps newcomers

Local housing is a big concern for many visiting professors and newly appointed faculty and staff.

To help newcomers find suitable homes in the Clemson area, the University Housing Office keeps an up-to-date list of available apartments and houses that are for sale or for rent.

Housing also has information about the 12 three-bedroom houses the University provides for short-term occupancy of up to 12 months. Applications for prospective tenants are available in the Housing Office.

For more information, call 656-2295.

AIDS, harassment workshop designed for faculty and staff

Faculty and staff members are invited to attend the Sexual Harassment and AIDS Workshop Feb. 25 sponsored by the Office of Human Resources.

The program will be held from 8 a.m. to noon in Tillman Auditorium.

Preregistration is not required.

"Sexual harassment and AIDS are affecting all universities, and Clemson is no exception," said President Max Lennon in a letter to University administrators.

"It is vital that each of us has an accurate understanding of the nature of these issues and their effects both on the individual and on the University."

Lennon urges all departments to have good representation at the workshop.

The guest speakers will be Mary Snead, staff development and training director for the S.C. Human

Affairs Commission; Dr. B.H. Woodard, an adjunct professor of biological sciences here and director of the School of Medical Technology at Anderson Memorial Hospital; and Gray Geddie, an attorney with the Ogletree, Deakins, Nash, Smoak and Stewart law firm in Greenville.

Snead will discuss sexual harassment -- what it is and how you should deal with it when it affects you, your colleagues or your employees.

Woodard and Geddie will speak about the medical and legal issues surrounding AIDS, particularly AIDS cases on a college campus.

Each speaker will answer workshop participants' questions after the presentations.

Human Resources is planning to hold a similar workshop soon for students.

For more information, call 656-3181.

Poultry science gets new head

A pioneer who helped formulate the B-cell concept in vertebrate immunology has been named head of the poultry science department.

Bruce Glick, whose research with poultry led to the identification of cells vital to the production of antibodies, is the author of one of the first papers on the subject. His paper is regarded as a classic in scientific circles because of the number of citations it has received in trade journals.

Glick comes to Clemson from Mississippi State University, where he has taught since 1955 and was named a distinguished professor of

poultry immunology and physiology in 1974.

He earned degrees from Rutgers University and the University of Massachusetts before earning his doctorate in physiology and genetics from The Ohio State University.

Remember...

The deadline for applying for a \$2,000 Provost Research Award is March 23. For application forms, call the Office of University Research, 656-2375.

Edgar's nightclub open days for coffee breaks and lunch

Need a place nearby -- but away from the office -- where you can enjoy a relaxing coffee break or meet friends for a light lunch?

Thanks to the University Union and ARA food service, Edgar's now is open from 9 a.m. to 3 p.m. as a dining

room for faculty and staff.

Edgar's is located on the ground floor of the University Union, across the courtyard from the bookstore.

Renovation of Edgar's is complete, and the student nightclub is serving employees coffee, tea and pastries from 9 to 11:30 a.m. and from 1:30 to 3 p.m.

Lunch is served from 11:30 a.m. to 1:30 p.m. You can help yourself to the soup and salad bar for \$3.25, or order from the menu foods such as sandwiches, hickory-smoked barbecue, hot dogs, chili, potato chips and two types of desserts.

Austin On Tap, a professional dance company whose repertoire includes ballet, classical jazz, modern and avant-garde choreography, will perform here Feb. 24.

Call the Union at 656-2461 for ticket information.



Amos Crooks, who has been with the Housing Office since 1983, has been named Housing's Custodian of the Month for December.

Clemson helping NASA in atmospheric testing

Researchers from Clemson will travel to the top of the world this month to conduct a series of chemical release experiments in an atmospheric testing project sponsored by the National Aeronautics and Space Administration.

Clemson is one of four universities sending scientists to Sondre Stromfjord, Greenland, as part of NASA's Project COPE, Cooperative Observations of Polar Electrodynamics. Other participants are Cornell University, Utah State University and the University of Alabama-Huntsville.

Ten suborbital rockets are scheduled to launch between now and April 4 in the campaign supported jointly by the Air Force Geophysics Lab and the NASA/Wallops Flight Facility.

Clemson calls its portion of the project Polar Auroral Wind Study, or PAWS for short.

Half of its six-person crew will man observation posts on Greenland's central ice cap, just above the Arctic Circle, to measure the winds and atmospheric waves in the ionosphere between 60 and 200 miles above the Earth's surface.

These winds in the high-latitude area of the ionosphere are of partic-

ular importance to NASA for a couple of reasons.

First of all, high wind speeds of up to 1,200 knots can cause the orbits of such hardware as satellites and space shuttles to decay more rapidly.

In addition, those same winds can produce radio static and interfere with communications.

Professor of physics M.F. Larsen is the University's principal investigator in the joint nighttime experiments between Clemson and the Danish Meteorological Institute.

In the PAWS experiment, two rockets will release a chemical that will produce glowing trails visible from the ground. The trails will be photographically tracked to measure the winds and their variations.

"Everything depends on the

weather," he said.

"It appears we'll have four to five days of clear skies, but we'll have to keep our fingers crossed.

"In March of 1985, we had to wait until the 12th day of a 14-day window before the cloud cover dissipated, and in such cold weather, maintaining morale can be a real chore."

Larsen said temperatures this time of the year generally range from -10 to -50 degrees Fahrenheit.

"Our cameras will be heated to keep the film from becoming brittle and cracking, but our personnel won't enjoy the same luxury."

Working with Larsen are physics Professor Philip Burt, electronics technician Gary Pressley and graduate students Amanda Clark, Ji Yoe and Marjan Obradovic.

The Clemson University Newsletter is published for all members of the faculty and staff by the Division of University Relations.

University Newsletter Editor Deborah M. Slice
Student News Writer Robert Parris
Acting Director, News Services ... Catherine Sams

We welcome your comments and suggestions. Call us at 656-4989 or write us at 103 Fike Center. **DEADLINE is Feb. 24, noon, for March 4 issue.**

Don't risk big bills: revise your W-4 form

Editor's note: The following is an excerpt from the column, "Your Money Matters," written by Robert Rose and printed in the Jan. 16 issue of The Wall Street Journal.)

Employees who think extra money in their paychecks this month reflects a big tax cut may be badly mistaken.

Some indeed will enjoy lower federal taxes for 1987. But others risk underpaying unless they claim fewer withholding allowances on the new Internal Revenue Service W-4 form provided by employers.

Because of the sweeping changes enacted last year, all employees subject to the U.S. income tax must complete the form. It is intended to help the employees claim the proper number of allowances, so that their employers withhold the correct amount.

The reason many people are getting extra money is that their employers' withholding calculations are geared to the new law's lower rates and larger exemptions. At the same time, the number of allowances claimed by employees is based on the old law, which contained many deductions and credits no longer available. So if too many allowances are being claimed, an employer may be withholding too little to cover an individual's liability. This may even be true for some people getting a tax cut in 1987.

The IRS and financial advisers warn taxpayers to return the forms as soon as possible. "If you wait very long to get the new withholding in place, it's quite conceivable you'd be significantly underwithheld at the end of 1987," said Arthur Altman, chairman of the IRS committee that developed the new form.

If a worker doesn't file a new W-4 form by Oct. 1, the employer must arbitrarily assume that the worker is entitled to only one allowance -- or two if the worker is married. But between now and Oct. 1, the worker could build up a big tax liability.

For many people, the result could be a rude shock when their 1987 returns come due. "They'll have to scramble to come up with the cash," said J. Edward Swails, a tax manager in Washington for the accounting firm Ernst & Whinney.

In addition, they might be subject to penalties. The IRS charges interest on overdue amounts if withholdings -- plus quarterly estimated tax payments, if any -- don't equal at least 90 percent of the year's liability (or 100 percent of the previous year's liability). And additional penalties are imposed if an underpayment is

deemed to be due to negligence or fraud.

IRS Publication 505 explains withholding and estimated taxes. And Publication 919 -- "Is My Withholding Correct?" -- will help people check their withholding after they file their new W-4 forms. A W-4 form can be revised whenever necessary.

Ron Herrin, director of payrolls and employee benefits programs, said his staff will help employees complete the new W-4 forms. Call 656-2000 or go by the office in G13 Sikes Hall.

"Airplane " clubs can be profitable, but also can get you arrested

Pyramid clubs known as "Airplane" or "Airline" have found their way onto the Clemson campus.

"We want everyone to be aware that participating in any such pyramid club is illegal and that the members are very likely to lose their money," said Jim Brummitt, chief investigator of the Clemson Police Department.

The Airplane club starts with one "pilot," who gets two "crew members" to give him or her a certain amount of money. At Clemson, this amount has ranged from \$25 to \$50, but off campus, people have paid more than \$1,000 to participate in the clubs.

The crew members then sell airline tickets for the same amount to a number of other people. When the plane is booked, the pilot drops out of the game and the two crew members become pilots of their own planes. And the cycle begins again.

It seems like a great opportunity to increase your money very fast. But, as Brummitt said, the people making the money are the first ones to start

the pyramid, and the majority of the participants are losing money.

Pyramid clubs and similar operations are illegal in the state under the South Carolina Unfair Trade Practices laws. The penalty for dealing in such an operation is \$5,000.

The attorney general has been contacted about the pyramid clubs at Clemson, and although no arrests have been made yet, investigators are working on the problem.

Twenty-nine people in North Carolina and 20 in Georgia have been arrested so far for participating in Airplane clubs, said Brummitt.

Columbia's WIS-TV reported Feb. 6 that the same scam is catching on at the University of South Carolina and that undercover police officers have bought airline tickets and are ready to make arrests.

Brummitt said if you know of any such pyramid club on campus, you should report it to the police department at 656-2222.

The deadline for submitting articles for the Newsletter is noon, Tuesday, the week before publication. But space fills up quickly, so you should get your story ideas to the editor even sooner. Call 656-4989 or send the information to 103 Fike Center.

Departmental notes

English

J. Idol (Prof) organized and chaired a session on Nathaniel Hawthorne's letters for the meeting of the Hawthorne Society at the annual conference of the Modern Language Association in New York.

He also will serve a second three-year term as editor of Nathaniel Hawthorne Review.

S. Eisiminger (Assoc Prof) has been selected associate editor of Nathaniel Hawthorne Review for a second three-year term.

R.J. Calhoun (Alumni Prof) was elected president of the Society for the Study of Southern Literature and chairman-elect of the executive committee of the Robert Frost Society at the annual meeting of the Modern Language Association in New York.

Calhoun's "The Southern Review" has been included in American Literary Magazine.

D. Tillinghast (Assoc Prof) published the poem, "Slipping Away," in Cross Timbers Review.

D.L. Shealy (Vstg Asst Prof) presented "The Author-Publisher Relationships of Louisa May Alcott" at the Modern Language Association meeting in New York.

F. Shilstone (Assoc Prof) organized and chaired the meeting of the Byron Society at the Modern Language Association convention in New York.

Shilstone also reviewed Carlos Baker's The Echoing Green: Romanticism, Modernism, and the Phenomena of Transference in Poetry in Southern Humanities Review.

Extension Home Economics

L. Gardner (Assoc Prof) presented "Utilizing Technical Resources to Identify, Prevent and Correct Energy-Related Home Moisture Problems" at the national conference of the American Association of Housing Educators in Santa Fe, N.M.

The American Council of Consumer Interests Dissertation Award Committee selected a research project completed by **G.M. Couchman** (Assoc Prof) as one of three nationally recognized family economics research studies for 1986.

The research, "Economics of Midlife Women: Employment and Retirement Issues," was completed at Oklahoma State University.

Facilities Planning and Management

J. Shanahan (Business and Finance Analyst) has joined the evening faculty of Central Wesleyan's LEAP program (Leadership Education for Adult Professionals) as an adjunct professor.

Finance

G.S. Sirmans (Assoc Prof) published: "Income Property Valuation and the Use of Market Extracted Overall Capitalization Rates" in The Real Estate Appraiser and Analyst with C.F. Sirmans (Louisiana State Univ) and B.T. Beasley; "Interest Rate Volatility and Assumable Loan Value in Creative Financing" in The Real Estate Appraiser and Analyst with E.J. Ferreira; and "Financing Premiums and Selling Price of Residential Income Properties" in Property Tax Journal with C.F. Sirmans.

Sirmans presented:

- "Interest Rate Changes, Transactions Costs and Assumable Loan Value" at the Southern Finance Association meetings in November.
- "The Capitalization of Creative

Financing Housing" with C.F. Sirmans and S.D. Smith at the Second Financial Congress in Chicago. The paper was published in Mortgage Banking and reprinted in Transactions of the Second Financial Congress.

- "Financing Premiums and Selling Price of Residential Income Properties" with C.F. Sirmans at the International Association of Assessing Officers' technical seminar in San Francisco.

Sirmans has been appointed to the Editorial Board of American Real Estate and Urban Economics Association Journal and is one of five recipients of the Homer Hoyt Advanced Studies Institute's 1987 Post Doctoral Award, given by the institute's School of Advanced Studies in Real Estate and Land Economics.

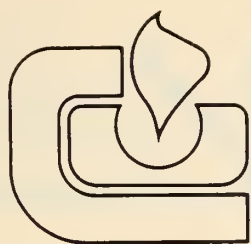
History

T. Kuehn (Assoc Prof) reviewed Herlihy and Klapisch-Zuber's Tuscans and Their Families and Klapisch-Zuber's Women, Family, and Ritual in Renaissance Italy in Journal of Modern History.



Charles Biediger -- '87 Father of the Year

Charles W. Biediger of Greenville, a man who put 10 children through college, is the Clemson Student Alumni Council's 1987 "Father of the Year." Biediger paid for 70 semesters of college tuition while helping his children earn their degrees -- eight from Clemson, two from Winthrop. A graduate of St. Mary's University in his native Texas, Biediger is the first non-alumnus to receive the award, which is in its 4th year. He was manager of the Monroe Calculating Machine Co.'s Greenville branch when he retired in 1983 after 42 years with the company. Here, he receives a citation from Rick Sartog of the Student Alumni Council.



Events

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FEB 18 1987

February 20 - 27

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| Through
March 9 | Third Clemson National Print and Drawing Competition and Exhibition. 9 a.m.-4:30 p.m. weekdays, 2-5 p.m. Sundays; Rudolph E. Lee Gallery, Lee Hall; free. (College of Architecture, 656-3081) |
| 19-21 | Film: "The Fly." 7 and 9:15 p.m., Y-Theater, \$1.50. (University Union, 656-2461) |
| 19-23 | Play: "The Wiz," a musical presented in conjunction with the Clemson Players and directed by Tony Evans. 8 p.m., 2 p.m. matinees on Feb. 21 and 22. Daniel Hall Auditorium; \$2 for public, \$1 for faculty and staff, free for students. (For reservations, call 656-2476) |
| 21 | Workshop: The Juggling Act: Productive Research and Excellent Teaching. Outdoor Laboratory. (Teaching Resources and Effectiveness Committee, 656-3393) |
| 21 | Women's basketball: Wake Forest. 7 p.m., Littlejohn Coliseum. (656-2101) |
| 21 | MATHCOUNTS mathematics competition. 9 a.m., Brackett Hall Auditorium. Open to junior high school students. (656-5540) |
| 22 | Film: "Yellow Submarine." 7 and 9:15 p.m., Y-Theater, \$1 for the public and free for students. (University Union, 656-2461) |
| 23 | Film: "Maria Magdalena." 3:30 p.m., 106 Daniel Hall. (Liberal Arts, 656-3263) |
| 23 | Film: "Carmen." 7:30 p.m., 313 Daniel Hall, free. (Languages Department, 656-3369) |
| 23-March 25 | Registration for Intramural badminton singles, volleyball team and table tennis singles. 8:30 a.m.-4:30 p.m., 251 Fike Recreation Center. (656-2116) |
| 24 | Performing Artist Series: Austin on Tap (dance troupe). 8 p.m., Tillman Hall Auditorium, \$4 for students and senior citizens and \$6 for the public. (University Union, 656-2461) |
| 24 | Film: "Maria Magdalena." 7:30 p.m., 106 Daniel Hall. (Liberal Arts, 656-3263) |
| 24 | Film: "The Terror of Tiny Town." 7 p.m., Y-Theater, \$1. (University Union, 656-2461) |
| 24 | Edgar's entertainment: Kirk Edwards. 9 p.m., \$1. (University Union, 656-2461) |
| 24-25 | Conference: Carbon and Graphite. Ramada Inn. (Professional Development, 656-2200) |

(Continued on back.)

- 24-25 **Conference: Advanced Textile Materials.** Ramada Inn. (Professional Development, 656-2200)
- 25 **Workshop: AIDS and Sexual Harassment.** 8 a.m.-noon, Tillman Hall Auditorium. (Office of Human Resources, 656-3181)
- 25 **Workshop: Research Opportunities Program.** A speaker from the Office of Naval Research will discuss developing research proposals and research support. Call the Office of University Research for details. (656-2375)
- 25 **Baseball: Western Carolina.** 3 p.m., University baseball field. (656-2101)
- 25 **Men's basketball: Georgia Tech.** 7:30 p.m., Littlejohn Coliseum. (656-2101)
- 25 **Film: "The 4th Man."** 7:30 p.m., Y-Theater, \$2. (Five Directions Cinema, 656-2461)
- 26 **Short course: How to Handle Your Hair.** 6:30 p.m., \$6. (University Union, 656-2461)
- 26 **Baseball: East Tennessee State.** 3 p.m., University baseball field. (656-2101)
- 26-28 **Film: "Running Scared."** 7 and 9:15 p.m., Y-Theater, \$1.50. (University Union, 656-2461)
- 26 **Concert: Clemson University Jazz Ensemble.** 8 p.m., Tillman Hall Auditorium, free. (Music Department, 656-3043)
- 27 **Concert: Huey Lewis and the News.** 8 p.m., Littlejohn Coliseum, \$16.75. (University Union, 656-2461)

Continuous YMCA-sponsored classes in women's and men's fitness, youth fitness, aerobics, teen aerobics, exercise, Jazzercise, social dancing, Middle Eastern dance, swimming and aquacising, gymnastics, lifesaving and after-school day-care and parents' night out programs. (656-2460)



Newsletter

FEB 25 1987

Feb. 25, 1987

Vol. 26, No. 24

Information for the Faculty and Staff of Clemson University

Briefly...

Health fair set for March 4

The annual Tiger Health Fair, featuring free health screenings and diet analyses, will be held March 4.

Sponsored by the College of Nursing and the food science department, the fair will be set up on the first floor of the Nursing Building from noon to 5:30 p.m.

Employees, students and the general public are invited to the fair to receive free health evaluations and learn more about the many services and programs available through the Nursing Center and the food science department.

For more information, call 656-076.

Police department offers defensive driving course

A defensive driving course, sponsored by the University police department, will be held March 11 and 12 from 8:30 a.m. to 12:30 p.m.

The eight-hour classroom course and the instructor are certified by the National Safety Council. If you successfully complete the course, up to four points can be removed from your S.C. driver's license.

Tuition is \$25. The class is open to the first 25 applicants.

To enroll, send your name, address, telephone number and \$25 check, made out to Clemson University, to Defensive Driving, Clemson University Police Department, A Street, Clemson University, 29634.

For more information, call Sgt. Ed Greene at 656-2222 after 3 p.m.



David Larson, left, stands with Mrs. Charles Brown and Gary Kleister. Charles Brown and Kleister were named Outstanding Professional Employees by the Office of Business and Finance Feb. 12.

Kleister, Brown named outstanding professionals

The Office of Business and Finance's first Outstanding Professional Employee Awards were given Feb. 12 to telecommunications technician Gary Kleister and posthumously to University Postmaster Charles Brown.

The awards were presented during Business and Finance's retreat for exempt employees.

The two recipients were nominated for the honor because of their integrity, reliability, initiative, loyalty and contributions to the goals of their departments.

Telecommunications Manager Randal Davis, who presented a plaque to Kleister, said, "In the 18 months he has been at Clemson,

Gary has given tremendous support to the telecommunications office. He has done a top quality job and feels a real dedication to his work and to the University."

Brown joined the University in 1968 and became postmaster in 1981.

He died Feb. 2.

"Mr. Brown always gave 110 percent of himself to his job," said John Newton, assistant vice president for business services.

"When there was a job to be done, he just rolled up his sleeves, jumped in, and did it. The legacy he leaves with us is leadership by example."

Mrs. Charles Brown of Pendleton accepted the award for her husband.

Forty-four participate in new training program

About 44 employees from the Physical Plant are the first participants in a new project to help Clemson staff members sharpen their reading and writing skills or receive high school equivalency certificates.

The Personnel Office and Tri County Technical College have joined forces to provide a program that will benefit individual employees and the University, said Personnel Director Ray Thompson.

"There are many employees on campus who would like to improve their literacy or get their high school certificates. They know they personally will benefit and will become even more productive on the job than they are now," he said.

"Being able to admit you need help with something speaks so well of

a person, and I'm proud of the whole group. These 44 employees are motivated and eager to begin their studies."

The program is funded by the Personnel Office and operated by professionals at Tri County Tech.

The employees have been tested by Tri County Tech staff members, and once the results are available, the students will begin their classes.

Participants will be divided into three categories: those who cannot read or write, those who would like to improve their skills, and those who have not graduated from high school and want to prepare for the high school equivalency examination.

Members of the Pickens County Literacy Association, including some retired Clemson professors, will help

the Tri County Tech teachers by providing students with one-on-one instruction.

Classes will meet for three hours each week for 10 weeks here on campus.

"Depending on how much interest in the program is shown by other employees, we hope to hold at least one 10-week session every year, maybe even two sessions," Thompson said.

"We have received excellent support from the administration, but I would especially like to thank Mr. Jac Wilson (assistant vice president for business and finance) for his enthusiastic support of our program," Thompson said.

"We feel this is a very good long-term investment in our employees."

Clemson to celebrate Women's History Week

A lecture by Catherine Clinton, an expert on women in the Old South, will begin the celebration of Women's History Week here March 3.

Clinton will speak on "Fanny Kemble's Journal: A Woman Confronts Slavery on a Sea Island Plantation" at 8 p.m. in 200 Hardin Hall.

A Harvard University professor, Clinton is the author of "The Plantation Mistress: Woman's World in the Old South" and "The Other Civil War: Women in the Nineteenth Century."

Sponsored by the Women's Studies Committee and funded by the Vending Machine Committee, Women's History Week at Clemson is March 1-7. Other scheduled events are:

- Phi Alpha Theta, a history honor society, will sponsor a debate on women's rights March 4 at 7:30 p.m. in Lyles Auditorium in Lee Hall. In the debate, Elisha Sparks, assistant professor of English, will participate as Virginia Woolf; William Sparks, assistant professor of political science, as John Stuart Mill; Edwin

Moise, associate professor of history, as Theodore Roosevelt; and Alan Grubb, assistant professor of history, as August Strindberg.

- "Rosie the Riveter," a film about women during World War II, will be shown March 5 at 2 p.m. in 200 Hardin Hall.

• A wine and cheese reception will be held for women faculty members March 5 at 8 p.m. in the Alumni Center.

- An exhibit, "Women at Clemson," will be in the lobby of Cooper Library through April 15 and also at McAlister Square mall in Greenville on March 2. The exhibit will

include photographs and information about the women in Clemson's history and the contributions they have made to the University.

For more details, call history Professor Theda Perdue, 656-3153.

Remember...

The deadline for applying for a \$2,000 Provost Research Award is March 23. For application forms, call the Office of University Research, 656-2375.

The Clemson University Newsletter is published for the faculty and staff of Clemson University by the Division of University Relations.

University Newsletter Editor Deborah M. Slice
Student News Assistant Robert Parris
Acting Director, News Services ... Catherine Sams

We welcome your comments and suggestions. Call us at 656-4989 or write us at 103 Fike Center. **DEADLINE is March 3, noon, for March 11 issue.**

California resident named new director of housing

Peter Perhac, the director of housing and residential life at the University of San Francisco, has been named Clemson's director of housing.

He will begin his new duties June 8.

Chosen from a field of 39 candidates, Perhac will fill a vacancy created after former housing director Almeda Rogers was named assistant vice president for student affairs in October.

Perhac, a native of Rhode Island, also has served as assistant director of housing at the University of Hartford and assistant dean of students at Fordham University in New York.

In 1986, he received a national award for the "Alcohol Education Program of the Year."

He earned his bachelor's and master's degrees from John Carroll University and expects to receive his doctorate from the University of San Francisco in May.

Two professors to perform in jazz concert

The first performance of the Clemson Jazz Ensemble this year will include solos by two University faculty musicians.

Richard Underwood, professor of English, will play the piano, and Eddie Wynn, associate professor of agricultural economics and rural sociology, will play the tenor saxophone.

The concert will be held Feb. 26 at 8 p.m. in Tillman Hall Auditorium. Admission will be free.

The first half of the show will feature the 19-member ensemble playing hits such as Glenn Miller's "American Patrol" and Benny Goodman's "Stompin' at the Savoy."

During the second half of the program, Underwood and Wynn will perform solo pieces and then will join the ensemble in playing Dizzy Gillespie's "A Night in Tunisia."

For more information, call University Bands at 656-3380.

Display system available for departments' use

University departments who wish to tell their Clemson story in a display format may now borrow from University Relations a portable exhibit system with general graphics.

The system includes an 8-by-8-foot navy blue fabric-covered frame, which quickly and easily can be set up and taken down by one person. The exhibit fits into a 15-by-36-inch carrying case and weighs about 30 pounds.

Graphics available for use with the display include the University name,

logo and four-color photographs.

Custom graphics can be produced by the publications and graphics services department for the cost of supplies and photography.

At least one month should be allowed for production of custom graphics.

There is no charge for the exhibit system.

For more information about the exhibit system or to reserve it, call Debbie Dunning, publications and graphics director, at 656-2468.

Chamber musicians to play March 2

The "Vienna Symphony Virtuosi," a chamber music group composed of seven members of the Vienna Symphony Orchestra, will perform here March 2.

The program will be held at 8 p.m. in Tillman Hall Auditorium.

Admission will be by season ticket. Tickets (\$6 for adults, \$2 for children) also will be sold at the door.

The concert, a part of the University Concert Series, will include class-

ical music by Haydn, Mozart and the lesser-known Michael Haydn, plus works of contemporary musicians Mark Glentworth, Leonid Schwartz, Richard Coolidge, Manny Albam and Denes Agay.

The performance will include the flute, oboe, clarinet, bassoon, French horn, trombone and percussion instruments.

For more information, call 656-2461.

Wetsel's research included in list of grant proposals

In the Feb. 4 Newsletter article titled "Committee funds 31 proposals," Margaret A. Wetsel's name was inadvertently omitted from the list of grant recipients.

She and Lorraine Fisher of the College of Nursing received \$1,750 from the University Research Grant Committee to work on "An Investigation of Psychological and Physiological Complications Related to the Frequency of Changing Intravenous Catheter Sites in a Treatment and Control Group."

The **Clemson University Symphonic Band** will perform **March 4** at 8 p.m. in Tillman Hall Auditorium. Call 656-3043 for more details.

Departmental notes

Industrial Education

D.G. Tesolowski (Assoc Prof) published the following five monographs with the Illinois State Board of Education: "Define the Elements of a Local Education Agency Plan for Computer-Based Instruction," "Define the Vocational Instructor's Role in the Local Education Agency Plan for Computer-Based Instruction," "Conduct a Personal Assessment of Microcomputer Competency," "Setting Personal Goals and Constructing and Implementing a Personal Plan for Microcomputer Competency" and "Evaluating and Modifying a Personal Plan for Microcomputer Competency."

G.G. Lovedahl (Assoc Prof) and **C.H. Isbell** (Assoc Prof) presented "Introducing Computer-Aided Drafting Into the Industrial Technology Education Laboratory" at the S.C. Industrial Technology Education Conference in Greenville.

Languages

H.M. Riley (Prof, German) presented an invited paper, "Karsch, Mereau, and the Princess Marie Amalie: German Women Writers During the Age of Goethe," at Rice University in Houston.

Riley published five reviews in Colloquia Germanica: "Zu Richard Wagner," Loos and Massenkeil, eds.; "Clemens Brentano. Die Maehrchen vom Rhein," Schillbach, ed.; "Gedichte der Romantik" (Fruehwald); "Spirited Women Heroes: Major Female Characters in the Dramas of Goethe, Schiller and Kleist" (J. Prandi); and "A Woman's Life in the Court of the Sun King: Letters of Liselotte von der Pfalz, 1652-1722," translated by E. Forster.

M.M. Sinka (Assoc Prof, German) presented "Filmic Narrative in Istvan Szabo's Mephisto" at the Conference on 20th Century Literature and Film at Florida State University. Sinka also participated in a workshop on German video materials in Atlanta, sponsored by the Goethe Institute.

Management

W.H. Hendrix (Prof) published "Dental Stress Model and Assessment Questionnaire" in Dental Clinics of North America.

L. LaForge and **C. McNichols** (Profs) won the 1986 Instructional Innovation Award from the Decision Sciences Institute for developing a course in which

students gain managerial experience in a computer-simulated manufacturing plant. The software was funded by a research grant from IBM.

M.J. Stahl (Prof and Head) and **D.W. Grigsby** (Assoc Prof) published "A Comparison of Unit, Subjective and Regression Measures of Second-Level Valences in Expectancy Theory" in Decision Sciences.

Stahl, **R. McLellan** (Prof, PRTM) and **R.T. Christoph** (James Madison Univ) have had accepted for publication by Journal of Parks and Recreation Administration "Comparison of Decision-Making Behavior Between Prospective Recreation and Management Personnel."

Marketing

M. LaForge (Asst Prof) published "An Empirical Investigation of Husband-Wife Participation in Financial Decisions" in Southern Ohio Business Review.

Mathematical Sciences

R. Jamison (Prof) gave a workshop on projective geometry for the students and faculty of Ahmednagar College and the New Arts and Commerce College in Ahmednagar, India, in December. Jamison also delivered an invited address on "An Embedding Theorem for Planar Direction Patterns" at the Symposium on Optimization, Designs and Graph Theory at the Indian Institute of Technology in Bombay.

P.M. Dearing (Assoc Prof) served as a panel member to discuss "Alternative Forms of University-Industry Collaboration in Mathematics" at the SIAM Conference on University-Industry Collaboration in Claremont, Calif.

R.E. Fennell (Prof) and **J.A. Reneke** (Prof) presented "Canonical Forms for Distributed Systems" at the 1987 IEEE Symposium on Intelligent Control in Philadelphia. Fennell chaired the control schemes session at the meeting.

J. Kenelly (Alumni Prof):

- published "Calculus as a General Education Requirement" in Toward a Lean and Lively Calculus, edited by R.G. Douglas and published by the Mathematical Association of America.

- gave an invited keynote address, "Good Heavens! That's South Carolina Out Front in the Educational Reform Race," at the Southeastern regional

meeting of the National Council of Teachers of Mathematics in Charleston.

- gave an invited address, "The Academic Competencies as They Relate to Mathematics and Science," at the New Hampshire Conference on Articulation in Mathematics and Science.

- was one of four faculty members on a prerelease review team for the new HP-28C graphics calculator, the first handheld device that can perform symbolic manipulations.

At the winter meeting of the Mathematical Association of America and the American Mathematical Society in San Antonio, Texas, Kenelly:

- co-chaired a meeting of the MAA/College Board Committee on Mutual Concerns.

- represented five Southern states on the MAA's governing board.

- presented "Calculators in the Standardized Assessment of Mathematics: New College Board and MAA Developments" and a mini-course, "Constructing Placement Examinations."

- attended the initial meeting of an MAA panel responsible for the construction of a calculator-based calculus readiness examination.

Mechanical Engineering

J.G. Goree (Prof) has been notified that his NASA grant titled "Interface Damage Growth in Composite Laminates With Interleaves" has been extended to Aug. 15 for \$34,050.

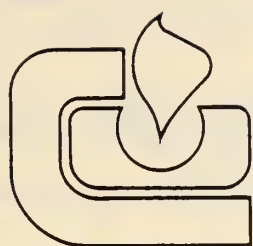
R. Dubey (Grad Asst) presented "Performance Measures and Their Improvement for Redundant Robots" at the 1986 ASME winter meeting in Anaheim, Calif.

Nursing

R.M. Culpepper (Nurse Clinician) successfully completed the national examination to obtain certification as an Adult Nurse Practitioner. The certification was granted by the American Nurses' Association.

Plant Pathology and Physiology

J.P. Krausz (former Assoc Prof), **B.A. Fortnum** (Assoc Prof, Pee Dee Research Center) and **O.W. Barnett** (Prof) published "Tobacco Mosaic Virus Inoculum Increase in Tobacco Infected at Flower Removal" in Plant Disease.



Events

INFORMATION FOR THE FACULTY AND STAFF OF CLEMSON UNIVERSITY

This calendar is prepared up to a month in advance. Please send in writing to the MASTER CALENDAR EDITOR, Trustee House, any campus event that should be listed. You also may call 656-4810 to check the UNIVERSITY MASTER CALENDAR for possible scheduling conflicts. (Call the number listed in each entry for more information.)

February 27 - March 6

FEB 25 1987

- | | |
|----------------------|--|
| Through
Feb. 28 | Exhibit: "Great Kings of Africa." Cooper Library. (656-5176) |
| Through
March 16 | Third Clemson National Print and Drawing Competition and Exhibition. 9 a.m.-4:30 p.m. weekdays, 2-5 p.m. Sundays; Lee Gallery, Lee Hall; free. (Architecture, 656-3081) |
| Through
March 25 | Registration for Intramural badminton singles, volleyball team and table tennis singles. 8:30 a.m.-4:30 p.m., 251 Fike Recreation Center. (656-2116) |
| 26 | Concert: Clemson University Jazz Ensemble. 8 p.m., Tillman Hall Auditorium, free. (Music Department, 656-3380) |
| 27-28 | Film: "Running Scared." 7 and 9:15 p.m., Y-Theater, \$1.50. (University Union, 656-2461) |
| 27 | Concert: Huey Lewis and the News. 8 p.m., Littlejohn Coliseum, \$16.75. (University Union, 656-2461) |
| 28 | Men's tennis: Duke. 2:30 p.m., Hoke A. Sloan Tennis Center. (656-2101) |
| 28 | Baseball: UNC-Wilmington. 2 p.m., University baseball field. (656-2101) |
| 28 | Wrestling: N.C. State. 7 p.m., Jervey Gym. (656-2101) |
| March 1-
April 15 | Exhibit: "Women at Clemson." Cooper Library. (Women's Studies Committee, 656-3153) |
| 1 | Baseball: Appalachian State. 2 p.m., University baseball field. (656-2101) |
| 1 | Film: "The Sting." 7 and 9:30 p.m., Y-Theater, \$1 for the public, free for students. (University Union, 656-2461) |
| 2 | Men's and women's tennis: N.C. State. 2:30 p.m., Sloan Tennis Center. (656-2101) |
| 2 | Baseball: UNC-Wilmington. 3 p.m., University baseball field. (656-2101) |
| 2 | Film: "La Strada." 7:30 p.m., 313 Daniel Hall, free. (Languages Department, 656-3369) |
| 2-5 | Short course: Intermediate Shagging. 7:15-8:30 p.m., \$10. (University Union, 656-2461) |

(Continued on back.)

- 2 **Lecture: "After Abolition: Reconstruction in the South in Comparative Perspective"** by Thomas J. Pressly. 8 p.m., 200 Hardin Hall, free. (History Department, 656-3153)
- 2 **Concert Series production: The "Vienna Symphony Virtuosi."** 8 p.m.; Tillman Hall Auditorium; \$6 for adults, \$2 for children and free for students. (University Union, 656-2461)
- 3 **Men's tennis: University of California at Irvine.** 2:30 p.m., Sloan Tennis Center. (656-2101)
- 3 **Women's tennis: Wake Forest.** Sloan Tennis Center. (656-2101)
- 3-4 **Baseball: Old Dominion.** 3 p.m., University baseball field. (656-2101)
- 3-4 **Conference: Current Technology in Spinning and Yarn Preparation.** Ramada Inn. (Professional Development, 656-2200)
- 3 **Lecture: "NSF Review Procedures"** by Frank Hamis, assistant director of biotic systems and resources with the National Science Foundation. (University Research, 656-2375)
- 3 **Lecture: "Fanny Kemble's Journal: A Woman Confronts Slavery on a Sea Island Plantation"** by Harvard University Professor Catherine Clinton. 8 p.m., 200 Hardin Hall, free. (Women's Studies Committee, 656-3153)
- 3 **Film: "Outland."** 7 p.m., Y-Theater, \$1. (University Union, 656-2461)
- 4 **Tiger Health Fair.** 12-5:30 p.m., Nursing Building, free. (College of Nursing, 656-3076)
- 4 **Lecture: "Recent Trends In Fractured Rock Hydrology."** 2:30 p.m., 104 McAdams Hall, free. (Charles Carter Newman Chair in Natural Resources Engineering, 656-4084)
- 4 **Concert: Clemson University Symphonic Band.** 8 p.m., Tillman Hall Auditorium, free. (Music Department, 656-3043)
- 4 **Film: "The Philadelphia Story."** 7:30 p.m., Y-Theater, \$2. (University Union, 656-2461)
- 4 **Debate: Women's Rights.** 7:30 p.m., Lee Hall Auditorium, free. (Women's Studies Committee, 656-3153)
- 5-7 **Baseball: Georgia Southern.** University baseball field. (656-2101)
- 5 **Film: "Rosie the Riveter."** 2 p.m., 200 Hardin Hall. (Women's Studies Committee, 656-3153)
- 5 **Reception for women faculty members.** 8 p.m., Alumni Center. (Women's Studies Committee, 656-3153)
- 5-7 **Film: "Top Gun."** 7 and 9:15 p.m., Y-Theater, \$1.50. (University Union, 656-2461)
- 6 **Meeting: University Honors Committee.** 2 p.m., 102D Tillman Hall.
- 6 **Concert: Hank Williams Jr. and Earl Thomas Conley.** 8 p.m., Littlejohn Coliseum, \$15. (University Union, 656-2461)
- 7 **Seminar: "The Black Woman: Yesterday, Today and Tomorrow."** 9 a.m.-3 p.m., Tillman Auditorium, free. (Black Awareness Committee, 656-5376)



Newsletter

MAR 4 1987

March 4, 1987

Vol. 26, No. 25

Information for the Faculty and Staff of Clemson University

Briefly...

Health fair open until 5 p.m.

The Tiger Health Fair will be open today until 5:30 p.m. Have your diet analyzed by a computer, your body fat percentage measured, or your blood pressure, vision and hearing checked on the first floor of the College of Nursing building -- free!

Plan for retirement at March 24-25 meeting

The Personnel Division has scheduled a preretirement education seminar for March 24 and 25 for employees, especially those who plan to retire within the next 15 years.

Topics to be covered include legal affairs, retirement and Social Security benefits, financial planning and investments, insurance, and health and leisure.

Reservations for employees and their spouses may be made on a first-come, first-served basis by calling Debbie King at 656-3367.

AIDS information available

The University's task force on AIDS has designated special resource persons to provide information on the disease to anyone who inquires.

Faculty are asked to refer students with questions concerning AIDS to these people.

The contacts are Dr. William Griffith at the Redfern Health Center, 656-2233; Verna Howell in the Housing Office, 656-2295; and Judith Haislett in the Counseling Center, 656-2451.

Staff Commission opens nominations for three seats

Nominations are due by April 15 for three seats on the Commission on Classified Staff Affairs, said Chairman Pat Padgett.

Formed three years ago, the commission studies staff concerns and formulates and recommends to the President's Council University-wide policies and procedures related to classified staff employees.

Nominations this year are to be made for the three seats held by members who were appointed to serve three-year terms.

Those seats are:

- one classified employee from an on-campus office to represent the College of Agricultural Sciences. (Paul Gable currently is serving.)
- one classified employee to represent the library and the colleges of Architecture, Sciences, Nursing and Commerce and Industry. (Martin Fowler currently is serving.)
- one classified employee to represent the offices of the President, the Provost, the Graduate School, Undergraduate Studies, Human Resources, Institutional Advancement, Energy Resources, Internal Auditing, Computer Center, and Administrative Programming Services. (Mary Ann Eddy currently is serving.)

These members, who will complete their terms June 30, may be renominated, said Padgett.

To make your nomination, fill out the ballot on Page 7, or a copy of it, and send it to the Personnel Division.

Nominees must be permanent, classified employees. An employee may be nominated more than once, and you may nominate as many persons as you wish.

Commission takes action on parking proposal

On Feb. 17, the Staff Commission held a special meeting to discuss Vice President for Business and Finance David Larson's parking proposal.

"After careful review of the various petitions, letters and phone calls we have received from staff members about the proposal, we made several observations and recommendations to Mr. Larson," Chairman Padgett said.

"There is overwhelming opposition to the parking plan and transportation system as proposed," she said.

During its meeting, the commission developed several suggestions about the parking situation and forwarded the list to Larson.

The suggestions are:

- Refer the issue to the Parking and Traffic Committee to survey other campuses similar in size and nature to Clemson University.
- The Parking and Traffic Committee should provide input regarding parking and traffic flow in the planning of new construction.
- Consider the existing shuttle system for students parking in perimeter lots, and determine ways to better utilize or expand the current system.
- Strengthen the authority to impound cars that are towed, remove parking privileges of chronic abusers, and inform parents of students' infractions of parking rules and the associated costs.

The commission summed up the issue by stating that some staff members cannot and others will not support the parking plan as proposed.

Review snow plan -- cold, wet days ahead

The driving and walking headaches caused by winter storms in January and February were nothing compared to the confusion over the University's snow policy.

Because the almanacs are calling for continued wetter-than-usual, colder-than-usual weather until spring, faculty and staff members should review the snow policy just in case there's another chance to use it.

Although classes may be canceled or delayed because of icy road conditions, offices traditionally remain

open. No one except the South Carolina governor can grant state employees additional paid leave.

Employees who can't make it to work, or who feel it necessary to leave work before the close of the regular workday, have three options for making up missed time: taking leave without pay, using annual leave or making up the hours later. The option is to be worked out among individual employees and their supervisors.

Likewise, students who can't come to campus because of bad

weather must make arrangements with faculty members to make up the work missed. Such an absence will be considered excused only if classes are canceled by the University.

Employees and students will be informed about class cancellations through local radio and television stations, which will be notified by 6:30 a.m. After the January storm, University officials agreed to make the decisions affecting class attendance by 6 a.m.

Nursing, intramurals challenge you to fitness

Join your friends and colleagues in the University's first "Wellness Challenge" -- a chance to lose a few pounds, tighten up here and there, breathe a little easier -- and get a free T-shirt in return.

The intramural department and the Nursing Center are joining forces to "encourage the University community to become aware of the need for physical well-being," said Dewilla Gaines, student services specialist with the intramural department.

The program also will help everyone learn about the many fitness opportunities available to them here on campus, she said.

The Wellness Challenge is open to all staff, faculty and students free of charge.

Want to get started?

First, register at Fike Recreation Center, Room 251, between 8:30 a.m. and 4:30 p.m. Monday - Friday.

Second, make an appointment to go by the Nursing Center on any Monday or Tuesday between 11 a.m. and 1 p.m. to be weighed and to have your blood pressure and pulse checked and your percentage of body fat determined.

And then start exercising.

You should walk, run, swim, row, bike or do aerobic exercises for at least 30 minutes, three times a week, for nine weeks.

The staff at Fike will issue you a pass to use the center's facilities.

At the end of nine weeks, return to the Nursing Center for the same check-up and receive a Wellness Challenge T-shirt and a certificate.

(Even if you've gained a pound or two in nine weeks, you'll still be rewarded for beginning a good fitness routine!)

For more information, call Gaines at 656-2119 or Kay Powers in the Nursing Center at 656-3076.

Entomologist wins service award



Entomology Professor Ben Kissam has been honored for 20 years of distinguished service to the people of South Carolina and the Clemson University Extension Service.

Kissam was presented a superior performance award for consistently developing successful Extension programs.

Two of his most recent projects include a poultry-integrated pest management program and his annual pest-control operators school, which attracts several hundred participants each year.

The Clemson University Newsletter is published for the faculty and staff of Clemson University by the Division of University Relations.

University Newsletter Editor Deborah M. Slice
Student News Assistant Robert Parris
Acting Director, News Services ... Catherine Sams

We welcome your comments and suggestions. Call us at 656-4989 or write us at 103 Fike Center. **DEADLINE is March 10, noon, for March 25 issue.** The Newsletter will not be published March 18, the week of Spring Break.

Ph.D. program approved

The S.C. Commission on Higher Education has approved a Ph.D. program in ceramic engineering at Clemson, the only program of its kind in the state and one of only two in the Southeast.

The doctoral program should help the state attract ceramic industries by providing advanced training for their engineers and enhancing Clemson's own ceramic research efforts.

"This is an outstanding opportunity for Clemson to capture leadership in this emerging high-tech field," said Gordon Lewis, head of the ceramic engineering department.

At present the only school offering a similar degree in the Southeast is the Georgia Institute of Technology.

Black women leaders topic of March 7 seminar

A seminar on "The Black Woman: Yesterday, Today and Tomorrow" will be held March 7 from 9 a.m. to 3 p.m. in Tillman Hall Auditorium.

Sponsored by the Black Awareness Committee and Delta Sigma Theta sorority, the program is a tribute to Women's History Week and black history. Faculty, staff and students are invited free of charge.

Guest lecturers Louise Rice and Bertha Maxwell will talk about the contribution that women, particularly black women, have made to society. The speakers will honor women leaders such as Phyllis Wheatley, Sojourner Truth, Mary McCleod Bethune, Shirley Chisholm and Dorothy Height.

Rice is an associate director of admissions and the minority recruitment officer at Augusta College.

Maxwell is an education professor at the University of North Carolina at Charlotte.

After their presentations, Rice and Maxwell will answer questions from the seminar participants.

A reception for the speakers will be held March 6, the day before the seminar, at 4 p.m. in 108 Strode Tower. Faculty and staff members are invited to attend.

For more information, call Lewis Suggs, assistant professor of history, at 656-5376.

ROTC sponsors annual art auction for Helping Hands

The second annual Upstate Art Auction for Helping Hands of Clemson will be held March 5 in the Ramada Inn ballroom.

The sponsors, Air Force ROTC, Angel Flight and Arnold Air Society, hope to raise at least \$18,000 to help build additions to the Pickens County children's home.

The art preview will be held from 5 p.m. to 7 p.m. and will include musical entertainment and refreshments.

The auction will begin at 7 p.m.

The public is invited.

Forty Upstate artists have donated their works -- original paintings, fiber arts, sculpture and ceramics -- to the benefit.

Less expensive items such as prints also will be for sale. Door prizes, including gift certificates for trips from area travel agencies, will be given.

The auction's patrons this year are former Gov. Richard Riley, Lt. Gov. Nick Theodore and South Carolina's poet laureate Bennie Lee Sinclair.

Helping Hands of Clemson is a private, non-profit organization that shelters abused and neglected children.

Summer computer camp for kids educational and fun, says Tarbox

Dave Tarbox says he's never had any trouble getting kids to think of computers as their friends, and now at the wonders of microcircuitry have endowed the blinking buddies with voices, he expects he'll have a hard time closing up shop for the day at the Second Annual Clemson Computer Camp this summer.

Tarbox, a computer technician for the department of parks, recreation and tourism management, sponsor of the camp, said voice synthesization will teach participants programming techniques as they electronically create voices.

"It's a new tool we're using this year that should make it more fun for the kids," he said. "And more fun for me, too."

The camp, which is divided into two one-week sessions, will be limited to 30 participants per session. Both sessions are designed for students in

grades five through 12.

The first session, June 29 through July 3, will be for beginners and those with intermediate computer skills.

The second session, July 6-10, is for advanced students or those who participated in last year's camp.

In addition to voice synthesization, the camp will include instruction in basic programming, graphics, word processing, data bases and an overview of available hardware.

For application forms or for more information, call 656-3400.

Remember...

The deadline for applying for a \$2,000 Provost Research Award is March 23. For application forms, call the Office of University Research, 656-2375.

Departmental notes

Administrative Programming Services

C.L. Gossett (Programmer Analyst) and **E.N. Neil** (Senior Systems Analyst) published "Central Data/Decentralized Processing" in *Cause/Effect*.

Agricultural Economics and Rural Sociology

J.C.O. Nyankori (Assoc Prof) published a chapter, "A Systematic Analysis of Household Food Consumption Behavior With Specific Emphasis on Predicting Aggregate Food Expenditures," in *Food Demand Analysis: Implications for Future Consumption*, edited by Capps and Senauer.

The following faculty participated in the 84th Southern Association of Agricultural Scientists meetings in Nashville, Tenn., in February:

- **G.M. Clary** (Asst Prof) chaired a session, "Agricultural Land Markets," and organized, moderated and participated in the symposium, "Systems Approaches to Food and Agricultural Problems."

- **J.C. Hite** (Alumni Prof) discussed a paper, "Undergraduate and Graduate Curricula in Agricultural Economics: Are We Competitive?"

- **K.H. Kahl** (Assoc Prof) presented "An Analysis of the Determinants of the South Carolina Corn Basis."

- **W.A. Tinsley** (Prof) presented "Tax Issues in Upgrading Farm Management Decisions."

- **E.D. Wynn** (Prof) presented "The South Carolina Governor's Rural Development Leaders School and Consultation: A Description and Observations."

Agricultural Engineering

Several faculty members participated in the ASAE regional meeting in Nashville, Tenn.:

- **J.G. Alphin** (Prof) presented "Transplant Clipper Mobile Frame Design" with **B.U. Klttrell** (Prof) and **F.C. Patten** (Instr) and "Computer-Controlled Cordwood Feeder Burner" with S.N. Boyd.

- **C.E. Hood** (Prof) presided at the session "Mechanization of Vegetables and Fruit Production."

- **C.V. Privette** (Assoc Prof) presented "Furrow Diking in South Carolina," written with R. Dekle (USDA) and M. Corley.

- **J.C. Hayes** (Assoc Prof) chaired a session, "Instrumentation and

Microcomputer Application."

- **R.E. Williamson** (Prof), **C.M. McHugh** (retired) and **E.T. Sims** (Prof, Horticulture) presented "Unique Collection and Elevating Conveyor of Fruit Harvesters."

- **Williamson, R.E. Young** (Prof) and **T.R. Garrett** (Instr) presented "Multi-Purpose Vegetable Production Machine."

Agronomy and Soils

R.K. Brenton (Grad Asst) took first place in a scientific paper presentation at the 40th annual Southern Weed Science Society meeting in Orlando, Fla. The paper, "Comparative Growth and Development Between Palmeri and Smooth Pigweed Biotypes," was co-authored by **B.J. Gossett** (Prof).

R.K. Obura (Grad Asst) took third place in a paper presentation at the 84th annual meeting of the Southern Association of Agricultural Scientists, Southern branch of the American Society of Agronomy. The paper, "Response of Cowpea Cultivars to *Bradyrhizobia* Strains Under Field Conditions," was co-authored by **H.D. Skipper** (prof) and **W.L. Ogle** (Prof, Horticulture).

U.S. Jones (Prof Emeritus) was co-author of two chapters in the recently released agronomy monograph "Sulfur in Agriculture." "Sulfur in the Atmosphere and Its Effects on Plant Growth" was written with J.C. Noggle and J.F. Meagher (Tennessee Valley Authority) and "Plant Response to Sulfur in the Southeastern United States" was written with E.J. Kamprath (N.C. State Univ).

Bioengineering

A.F. von Recum (Prof and Head) was nominated by the U.S. National Institutes of Health and appointed by the Federal Republic of Germany to review biomaterials research grants submitted to the West German government. The reviews were held in Bonn, West Germany, in January.

Biological Sciences

D.G. Heckel (Assoc Prof) presented two seminars at Utah State University's Ecology Center: "Ecological Aspects of Amphibian Metamorphosis" and "The Role of Effective Population Sizes in Establishing Minimum Viable Populations." He also delivered a seminar, "Genetics and the Evolution of Insecticide Resistance,"

to the insect biology section of the university's biology department.

Heckel and T.M. Brown (Assoc Prof, Entomology) have been awarded a \$13,500 grant from the Southern Region Pesticide Impact Assessment Program for their research proposal, "Genetic Mechanisms of Pyrethroid Resistance in the Tobacco Budworm."

Building Science

S. Schuette (Assoc Prof) and **R.W. Liska** (Assoc Prof) published "The Electronic Spreadsheet: An Alternative for Computerized Construction" in *Builder and Contractor*.

Chemical Engineering

J.N. Beard (Prof) was the featured speaker at the Jan. 26 meeting of the Palmetto Chapter of the American Association for Textile Technology. The presentation was titled "Modeling of Textile Processes: A Key to Expert Control Systems." He also presented "The Modeling of Textile Processes" at the American Association of Textile Chemists and Colorists' Wet Processing Machinery Committee meeting in Charlotte.

Chemistry

K. Dill (Assoc Prof) gave an invited lecture, "Structure-Function of Carbohydrates and Glycoproteins," to the biology and chemistry departments at Benedict College in Columbia.

A.R. Pinder (Calhoun Prof) has been appointed external examiner of two Ph.D. theses in organic chemistry from Annamalai University in India.

D.D. DesMarteau (Prof and Head) presented "Some Recent Developments in the Chemistry of Fluorinated Sulfonamides," written with **S. Zuberl**, **H.N. Huang**, **S. Singh** and **M. Witz** (Research Associates), at the Winter Conference on Fluorine Chemistry in St. Petersburg, Fla. He also presented "Some Recent Developments in the Chemistry of Fluorinated Carbon-Nitrogen Compounds," written with **M. Cook**, **W. Navarini** and **A. Wade** (Research Associates) and **S. Kotun**, **C. Bauknight** and **S.H. Hwang** (Grad Assistants), at the same conference. DesMarteau has been appointed to an international panel of experts to evaluate alternative chemical substances for fully

hydrogenated chlorofluorocarbons (CFCs). The panel will advise the U.S. Environmental Protection Agency on alternatives to CFCs, which have been implicated in the depletion of stratospheric ozone.

Dairy Science

These papers were presented at the annual meeting of the Southern division of the American Dairy Science Association in Nashville, Tenn.: "Modification of Half-Gallon Containers to Reduce Flavor Change and Riboflavin Degradation by Fluorescent Lighting" by **J.C. Hoskins** (Asst Prof) and "Performance of Calves Fed *Bacillus subtilis* or a mixture of *B. subtilis*, *Lactobacillus acidophilus* and *L. lactis*" by **B.F. Jenny** (Prof), **H. van Dijk** (Grad Science Assoc) and **J.A. Collins** (Grad Science Assoc Prof).

Economics

D.N. Laband (Assoc Prof) has had the following accepted for publication:

- "A Ranking of the Top Economics Programs by Research Productivity of Their Graduates: Reply" in Journal of Economic Education.
- "The Role of Government in Promoting Productive and Unproductive Entrepreneurial Activity" in Private Initiative and Economic Development, published by the Intercollegiate Studies Institute.
- "An Evaluation of 50 'Ranked' Economics Departments: Reply" in Southern Economic Journal.

• "Spotlight Sales and Sidewalk Solicitations: Some Simple Economics of Forced Consumption" in Journal of Economic Behavior and Organization.

Laband published:

- "Further Evidence Regarding Journal Treatment of Male Versus Female Authors" in Eastern Economic Journal.
- "Advertising as Information: An Empirical Note" in Review of Economics and Statistics.

M.S. Wallace (Prof), **C. Nardinelli** (Assoc Prof) and **J. Warner** (Prof) have had accepted for publication "Explaining Differences in State Growth: Catching Up Versus Olson" in Public Choice.

Wallace and **R. Shannon** (Prof) published "Wages and Inflation: An Investigation Into Causality" in Journal of Post-Keynesian Economics.

Wallace, Warner and **W. Anderson** (Former Grad Asst) published "Government Spending and Taxation: What Causes What?" in Southern Economics Journal.

Wallace, H. Ulbrich (Prof) and **D. Placone** (Asst Prof) published "The Crowding Out Debate: It's Over When It's Over and It Isn't Over Yet" in Journal of Post-Keynesian Economics.

Wallace, Warner and **M. Mitchell** (Grad Asst) published "Real Wages Over the Business Cycle: Some Further Evidence" in Southern Economic Journal.

Wallace, **D. Blair** (Prof) and **R.L. Cottle** (Univ of Mississippi) published "Faculty Ratings of Major Economics Departments by Citations: An Extension" in American Economic Review.

Wallace, Warner and **C. Ersenkal** (Former Vstg Asst Prof) published "Chairman Reappointments, Presidential Elections, and the Policy Actions of the Federal Reserve System" in Policy Science.

R.B. McKenzie (Prof) published the following books: "The Fairness of Markets: A Search for Justice in a Free Society," "Regulating Government: A Preface to Constitutional Economics," "Economics" and "Competing Visions: The Political Conflict Over America's Economic Future."

Nine pamphlets and policy papers by McKenzie have been published by the Center for the Study of American Business at Washington University in St. Louis: "Tax Reform as Tax Increase in 1986," "A Misguided Search for a National Labor Policy," "The Deregulation of Airlines: Have Air Fatalities Been Affected?," "Taking Stock of the Federal Budget," "Free to Lose: The Bright Side of Economic Failure," "Controlling the Federal Budget: Is the Past a Prologue to the Future?," "The Good News About U.S. Production Jobs," "Justice as Participation: Should Workers Be Given Managerial Rights?" and "What Should Be Done for Displaced Workers?"

McKenzie published:

- "The NCAA as a Cartel: An Economic and Legal Reinterpretation" in Antitrust Bulletin (forthcoming).
- "The Loss of Textile and Apparel Jobs: The Relative Importance of Imports and Productivity" in Cato Journal.
- "Eminent Domain: A New Policy Tool for Industrial Reform" in Journal of Institutional and Theoretical Economics.
- "Tax/Compensation Schemes: Misleading Advice in a Rent-Seeking Society" in Public Choice.
- "Is the NCAA a Cartel? Absolutely Not" in National Law Journal with T. Sullivan, a Greenville accountant.
- "The Myth of the Hollow Corporation"

in New Management.

- "Missing Middle' Fears Unfounded" in Financier: Journal of Private Sector Policy.

McKenzie also has made the following contributions to larger works:

- "Adjustment Assistance in a Competitive Society: A Dissent" in Adjustment Assistance in a Competitive Society: Partners in Progress, "Consequences of Relocation Restrictions" in Deindustrialization and Plant Closure, "Capital Taxation and Industrial Policy" in Taxation and the Deficit Economy: Fiscal Policy and Capital Formation in the United States, "Is Entrepreneurial Activity Still Alive in America?" in Entrepreneurship: The Key to Economic Growth and "The Department of Commerce" in Mandate for Leadership II: Continuing the Conservative Revolution.

McKenzie reviewed Nobel laureate James Buchanan's book, Markets, Liberty and Justice, in Cato Journal.

B. Yandle (Alumni Prof) and **E. Young** (Grad Asst) published "Regulating the Function, Not the Industry" in Public Choice.

Yandle also published:

- "Federal Trade Commission Output and Costs: Cycling Through the Zone of Political Wrath" in Social Science Quarterly.
- "Rentless Rentseeking and Abnormal Returns" in Public Choice.
- "Unions and Environmental Regulation" in Journal of Labor Research.
- "The Evolution of Regulatory Activities in the 1970s and 1980s" in Essays in Contemporary Economic Problems.
- "Models of Political Economy of Regulation," published by the Southern Rural Development Center at Mississippi State University.
- a review of S. Brubaker's Rethinking the Federal Lands in Journal of Energy and Development.
- a review of J. Tumlin's Protectionism: Trade Policy in Democratic Societies in Cato Journal.

Electrical and Computer Engineering

A.W. Bennett (Prof and Head) gave a seminar on "Effective Technical Communication" at the National Society of Professional Engineers conference in Orlando, Fla.

Elementary and Secondary Education

D. Fuhr (Assoc Prof) was the keynote

(Continued on next page.)

notes, cont.

speaker at the winter meeting of South Carolina Allied Administrators Association in Columbia and at the Spartanburg school district in-service day in January. He also spoke at the winter conference of the South Carolina Association of School Personnel Administrators, state adult education directors and the South Carolina Association of Allied School Administrators in Hilton Head.

English

R.W. Moran (Asst Dean and Prof) published the poem "Sunning" in Thirteen. Moran also reviewed Conversations with South Carolina Poets, edited by Swanson and Thesing, in The South Carolina Review.

J. Idol (Prof) wrote an essay on Charles Portis, author of True Grit, for Beacham's Popular Fiction in America.

Entomology

T.E. Skelton (Prof) is the new president-elect of the Southeastern branch of the Entomological Society of America. The regional organization is composed of professional educators and other entomologists from 13 states.

Environmental Systems Engineering

W.D. Nicholas (Former Grad Student) and **A.R. Abernathy** (Prof) published "A Method to Assess Periodic Responses of Aquatic Microecosystems to Photosynthetic Inhibition" in Chemosphere.

C.P.L. Grady Jr. (Bowen Prof) published "Biodegradation of Hazardous Wastes by Conventional Biological Treatment" in Hazardous Waste and Hazardous Materials.

T.J. Overcamp (Prof) gave a seminar, "Modeling Gamma Dose From Radioactive Plumes" at the Savannah River Laboratory in Aiken in February.

Forestry

A.W.C. Lee (Asst Prof) and **Z. Hong** (Research Assoc) published "Compressive Strength of Cylindrical Samples as an Indicator of Wood-Cement Compatibility" in Forest Products Journal.

G.W. Wood (Prof) published "Influences of Forest Fertilization on South Carolina Deer Forage Quality" in Southern Journal of Applied Forestry.

D. Hon (Prof) was elected national chairman of the Cellulose, Fiber and Textile Division of the American Chemical

Society.

R.A. Harris (Assoc Prof) published "Potentially Profitable Pig Pen Pallet Product Proposed" in The Pallet Digest.

Graduate School

D.B. Stone (Coordinator, Clemson at Greenville Tech) served as a panel leader to review proposals submitted to the College Science Instrumentation Program of the National Science Foundation.

History

R.M. Golden (Prof) reviewed Murat's Colbert in The Historian.

T. Perdue (Prof) published "John Ross and the Cherokees" in Georgia Historical Quarterly and "An Historian's Perspective" in Proceedings of the Conference on Cherokee Prehistory. Perdue also presented "Slavery and Southern Indians" at the Smithsonian Institution in February.

Horticulture

D.C. Coston (Prof) was named associate editor of the Journal of the American Society of Horticultural Science and HortScience.

L.C. Miller (Prof):

- presented an invited lecture on centipedegrass management during the N.C. Turfgrass Conference.

- chaired an educational session, "Practical Golf Course Management," during the 58th International Golf Course Conference and Show in Phoenix, Ariz.

- published "Centipedegrass Tolerance to Postemergence Grass Herbicides" with **L.B. McCarty** (Former Grad Asst), **T. Whitwell** (Assoc Prof) and **J.M. Higgins** (Grad Research Asst) in HortScience.

J.W. Kelly (Asst Prof) published "The Influence of Cultivar, Price and Longevity on Consumer Preferences for Potted Chrysanthemums" in HortScience.

Whitwell and Kelly were awarded the Horticultural Research Institute's Richard White Grant for \$1,500 and the Clayton Bunting Grant for \$1,000 for a research project titled "Weed Control for Herbaceous Perennials."

M.G. Hamilton (Assoc Prof, Edisto Research and Education Center), **A. Jones** (Adj Prof) and **P.D. Dukes** and **J.M. Shalk** (USDA) published "Selection Criteria for Breeding Sweet Potatoes for Industrial Uses" in HortScience.

D.R. Decoteau (Asst Prof, Pee Dee Research and Education Center) and Purdue University researchers published

"Identification of Manganese Toxicity and Magnesium Deficiency on Melons Grown in Low-pH Soils" and "Ozone-Induced Injury on Field-Grown Watermelons" in HortScience.

E.T. Sims (Prof), **B.B. Rhodes** (Prof) and **W.H. Courtney** (Assoc Prof) have completed a 10-day tour of St. Lucia and several other islands in the West Indies. The professors are providing technical consultation to scientists of the Caribbean Agricultural Research and Development Institute (CARDI) on edible root crops. The consultation is part of a partnership between Clemson and the Caribbean nations participating in CARDI.

A.R. Mazur (Prof) presented an invited paper, "Overseeding Transition on Bermudagrass Putting-Green Turf" at the 58th International Golf Course Conference and Show in Phoenix, Ariz.

Industrial Education

Warren Daum, president of the Gravure Education Foundation, presented the first check to the Gravure Fellowship Program being established at Clemson. The gift will help Clemson support a graphic communications program to serve the varied needs of all phases of the printing, publishing and packaging fields.

Industrial Engineering

C.R. Lindenmeyer (Prof) presented "Computer-Aided Work Sampling for Indirect Labor Cost Control" to the Northeast Georgia Chapter of the Institute of Industrial Engineers in Athens, Ga.

Psychology

T.R. Alley (Asst Prof) and **R.M. Baron** (Univ of Connecticut) published "Young Adults' Caregiving and the Age Level of Potential Recipients" in Journal of Psychology.

Publications and Graphics Services

C. Ryan (Word Processing Specialist) attended Apple Support Coordinator training in Columbia in January.

Sociology

R.F. Larson (Prof and Head) co-authored the fourth edition of Statistics: A Tool for the Social Sciences, published by Duxbury Press.

K. Sturkie (Assoc Prof) and **J.P. Flanzer** (Univ of Arkansas) published the book Alcohol and Adolescent Maltreatment.

**Nominating Ballot
Commission on Classified Staff Affairs
Clemson University**

Three seats on the Commission on Classified Staff Affairs will be open as of July 1, 1987. Nominations should be made for new representatives from the following areas:

- The College of Agricultural Sciences (one employee who works on campus),
- The library and the Colleges of Architecture, Sciences, Nursing and Commerce and Industry (one employee),
- The offices of the President, the Provost, the Graduate School, Undergraduate Studies, Human Resources, Institutional Advancement, Energy Resources, Internal Auditing, Computer Center and Administrative Programming Services (one employee).

The person you nominate must be a permanent, classified employee of Clemson University. An employee may be nominated more than once, and you may nominate as many persons as you wish. Current Staff Commission members may be renominated. Completed ballots are due in the Personnel Office by April 15. (Make as many copies of this form as you need.)

Nominee's Name: _____
First Middle Initial Last

College (if applicable): _____

Department/Office/Division: _____

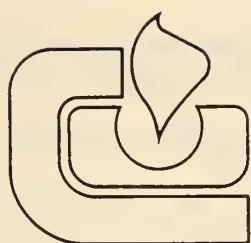
Job Title: _____ **Years at Clemson:** _____

ONOMINEE: Signing this form indicates your willingness to serve on the Commission on Classified Staff Affairs if you are selected.

Signature of Nominee

Signature of Nominator

PLEASE DETACH AND MAIL YOUR NOMINATING BALLOT(S) TO:
PERSONNEL DIVISION
GENTRY HALL
CLEMSON UNIVERSITY
CLEMSON, SC 29634



Events

INFORMATION FOR THE FACULTY AND STAFF OF CLEMSON UNIVERSITY

This calendar is prepared up to a month in advance. Please send in writing to the MASTER CALENDAR EDITOR, Trustee House, any campus event that should be listed. You also may call 656-4810 to check the UNIVERSITY MASTER CALENDAR for possible scheduling conflicts. (Call the number listed in each entry for more information.)

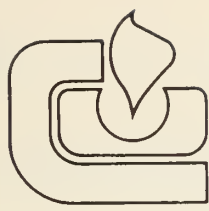
March 6 - 13

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|---------------------|--|
| Through
March 16 | Third Clemson National Print and Drawing Competition and Exhibition. 9 a.m.-4:30 p.m. weekdays, 2-5 p.m. Sundays; Lee Gallery, Lee Hall; free. (Architecture, 656-3081) |
| Through
March 25 | Registration for intramural badminton singles, volleyball team and table tennis singles. 8:30 a.m.-4:30 p.m., 251 Fike Recreation Center. (656-2116) |
| Through
April 15 | Exhibit: "Women at Clemson." Cooper Library. (Women's Studies Committee, 656-3153) |
| 5-7 | Baseball: Georgia Southern. University baseball field. (656-2101) |
| 5-7 | Film: "Top Gun." 7 and 9:15 p.m., Y-Theater, \$1.50. (University Union, 656-2461) |
| 6 | National History Day. District competition for grades 6-12. 8 a.m.-2 p.m., Hardin and Tillman halls, open to the public. (History Department, 656-5366) |
| 6 | Meeting: University Honors Committee. 2 p.m., 102D Tillman Hall. |
| 6 | Reception for the guest lecturers participating in the March 7 seminar on "The Black Woman." 4 p.m., 108 Strode Tower, open to all faculty and staff. (Black Awareness Committee, 656-5376) |
| 6 | Concert: Hank Williams Jr. and Earl Thomas Conley. 8 p.m., Littlejohn Coliseum, \$15. (University Union, 656-2461) |
| 7 | Seminar: "The Black Woman: Yesterday, Today and Tomorrow." 9 a.m.-3 p.m., Tillman Hall Auditorium, free. (Black Awareness Committee, 656-5376) |
| 7 | Women's indoor track: Clemson Last Chance. (656-2101) |
| 8 | Film: "Jaws." 7 and 9:15 p.m., Y-Theater, \$1 for public and students free. (University Union, 656-2461) |
| 8 | Baseball: UNC-Charlotte. 2 p.m., University baseball field. (656-2101) |
| 9 | Meeting: Professional Secretaries International. 7 p.m., Calhoun Courts Commons building, all secretaries welcome. Speaker: Wayne Bolt, assistant football coach. (656-2249) |

(Continued on back.)

- 9 **Lecture: "The Role of Traditional Design in Today's Practice"** by architect Frank McCall. 8 p.m., Lee Hall Auditorium, free. (Clemson Architectural Foundation, 656-3883)
- 9-11 **Baseball: Marshall.** 3 p.m., University baseball field. (656-2101)
- 10 **Lecture: "Groundwater Issues in the Piedmont Region of the Carolinas"** by geologist Harry LeGrand. 2 p.m., 104 McAdams Hall, free. (Charles Carter Newman Chair in Natural Resources Engineering, 656-4084)
- 10 **Chamber Music Series concert: Eric Ohlsson, piano and oboe recital.** 8 p.m., Daniel Hall Auditorium, free. (Music Department, 656-3043)
- 10 **Film: "Butch Cassidy and the Sundance Kid."** 7 p.m., Y-Theater, \$1. (University Union, 656-2461)
- 10 **Edgar's entertainment: guitarist Brian Huskey.** 9-11 p.m., \$1. (University Union, 656-2461)
- 10-11 **Conference: Carpet Manufacturing Technology.** Ramada Inn. (Professional Development, 656-2200)
- 11 **Meeting: Women in Higher Education Network.** Noon, Golden Corral restaurant. The secretary of the S.C. chapter of the National Organization for Women and treasurer of the Clemson-Anderson chapter will speak on "More Than ERA NOW." (656-3127)
- 11-12 **Short course: Color Coding and Make-up Artistry.** 7-9 p.m., \$20. (University Union, 656-2461)
- 12 **Men's and women's tennis: Georgia Tech.** 2:30 p.m., Sloan Tennis Center. (656-2101)
- 13-14 **Baseball: Virginia.** University baseball field. (656-2101)

Continuous YMCA-sponsored classes in women's and men's fitness, youth fitness, aerobics, teen aerobics, exercise, Jazzercise, social dancing, Middle Eastern dance, swimming and aquacising, gymnastics, lifesaving and after-school day-care and parents' night out programs. (656-2460)



Newsletter

MAR 11 1987
March 11, 1987

Vol. 26, No. 26

Information for the Faculty and Staff of Clemson University

Briefly...

Nominations due March 20

The Association of Women Professionals is inviting nominations for the Susan B. McWhorter Outstanding Woman Professional Award.

The award honors a career woman in the tri-county area who has made contributions to her profession, has helped other women achieve, and has offered leadership in the areas of community, church or family life.

Nominations for the award may be made by individuals or groups and are due March 20.

For more details, call Dot Yandle at 654-5148 or 654-8979.

AIDS, harassment seminar for students set for March 25

A seminar on sexual harassment and AIDS will be held for Clemson students March 25.

Faculty and staff members are asked to encourage students to attend, said Jane Knapp of the Office of Human Resources.

The program, similar to the one presented to University employees Feb. 25, will be held at 7 p.m. in Daniel Auditorium.

Call Knapp at 656-3181 for more information.

Applications due March 23

The deadline for applying for a \$2,000 Provost Research Award is March 23. The awards are made to encourage the initiation and completion of research activities.

For application forms, call the Office of University Research, 656-2375.

Cabinet supports concept of on-campus child care

A recommendation from an ad hoc committee appointed by President Max Lennon to study the feasibility of an on-campus child care facility has been received favorably by the President's Cabinet, said committee Chairman Pat Padgett.

In a report submitted to Lennon, the committee recommended that the University call for open bids from private, established child-care operators to provide services on land leased from the University.

"The advantages of contracting with a private company are numerous," Padgett said.

"It limits initial expense to the University because the private company would pay to build a new facility or renovate an existing one, and because its staff members wouldn't be state employees.

"It also eliminates charges of unfair competition with private businesses because all interested parties would have an equal chance to bid."

Bid specifications would be written to ensure that the facility would adhere to the high standards that would be expected of a center associated with the University, Padgett said.

Suggested specifications included in the report would require the center to offer infant and after-school day care as well as traditional pre-school programs; form an advisory panel of Clemson faculty, staff and students who will help plan the center's educational programs, operations, policies and physical facilities; work with interested academic departments to give Clemson students in relevant majors hands-on learning opportunities for interaction with the children; provide part-time care con-

tracts for students whose schedules vary from day to day; and work with the Nursing Center to provide a "sick bay."

"Dr. Lennon has directed the committee to continue, but now shift our focus toward development of an actual bid document," Padgett said. "He has asked us to work with David Larson, vice president for business and finance, on this next step.

"It appears we are actually on our way to having child care at Clemson University."

Council approves committee structure

Members of the President's Council Feb. 27 agreed to update the admissions policy for entering freshmen and transfer students and to change the structure of the Admissions and Continuing Enrollment Committee's two subcommittees.

The new admissions policy contains no major changes but states clearly to the applicant two things: 1) the list of credentials used in predicting his or her grade-point ratio, which is "of primary importance in accepting or denying a majority of the students applying for admission," and 2) that each of the University's colleges is involved in setting minimum standards for admission.

On recommendation from the Commission on Undergraduate Studies, the council approved several changes in the makeup of the subcommittees on Continuing Enrollment Appeals and on Admission Exceptions:

(Continued on page 2.)

Center offers discounts on microcomputers

Did you know you can buy a microcomputer at a discount through the Computer Center?

The center has arrangements with several vendors to provide microcomputer hardware and software at reduced prices to staff, faculty and students, said Kathy Hunter, information resources consultant.

Discounts range from 15 to 40 percent, Hunter said.

Through the center, you can buy Apple Computer's Macintosh 512Ke and Macintosh Plus; IBM's PC, PC/XT, PC/AT and Convertible; the complete line of Tandy/Radio Shack computers; and Zenith Data System's PC/XT/AT compatibles and their portable and lap-top PCs.

Current prices and ordering information are available at the center's Help Desk.

Pricing information also is on-line

in "HELP PURCHASE" on the main-frame and Videotex under "Computer Center News" on the VAX.

Center's staff also offers typesetting services

Typesetting services now are provided by the Computer Center's consulting and technical services staff, said computer programmer Pam Purcell.

"A variety of typesyles, point sizes and special features, such as slanted or expanded and condensed type, is available," Purcell said.

Jobs can be printed on either 8- or 12-inch-wide paper. Computer Center staff also can provide page layout and design services for internal and student publications. The Publications and Graphics Services department provides design and

production services for external publications.

The cost for typesetting is 10 cents per square inch of output.

For more information, call Purcell at 656-3466. Job request forms are available at the center's Help Desk.

Use radio and TV to publicize events

One of the best ways to get the word out to the public about campus events is radio and television, but it takes planning in advance.

The News Services department's radio-TV editor Dave Crockett routinely sends items to local stations for inclusion in their community calendar announcements. Most of the items are aired if they are passed along far enough in advance of the events.

"Announcements like WYFF's 'FourCast' reach a lot of people," said Crockett. "It's important to remember that the television stations want the information at least a month before the event, and radio stations need a minimum two-weeks' lead time."

"The earlier I get the information, the better the chance it will be aired."

Crockett will help with broadcast publicity for any University-sponsored event. Call him at 656-3859.

Former hostage in Lebanon Jeren Levin will speak here March 26. Look for details in the March 25 issue of the Newsletter.

committee structure, cont.

- **The Continuing Enrollment and Appeals Subcommittee** will be composed of six of the nine elected faculty representatives on the Admissions and Continuing Enrollment Committee and one minority faculty member, who may be appointed by the provost.

All members will serve three-year terms.

The assistant vice president for student affairs will be the subcommittee's chairman and a non-voting member, and the registrar also will be a non-voting member.

- **The Admission Exceptions Subcommittee** will be a permanent subcommittee of the Admissions and Continuing Enrollment Committee. (It has been an ad hoc committee.)

The subcommittee will be composed of the remaining three elected faculty representatives on the Admissions and Continuing Enrollment Committee and two faculty members appointed by the provost. The provost will assure minority representation.

The assistant vice president for

student affairs will be the non-voting chairman of this subcommittee, too, and the admissions director also will be a non-voting member.

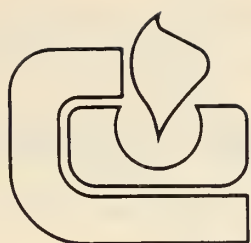
In other business, the council accepted a proposal from Benton Box, acting vice president for agriculture and natural resources, that the Commission on Public Service be abolished.

Box said the President's Council has several other avenues (the commissions on Faculty Affairs, Public Programs and Graduate Studies and Research) through which it can get reports from the public service area.

The Clemson University Newsletter is published for the faculty and staff of Clemson University by the Division of University Relations.

University Newsletter Editor Deborah M. Slice
Student News Assistant Robert Parris
Acting Director, News Services ... Catherine Sams

We welcome your comments and suggestions. Call us at 656-4989 or write us at 103 Fike Center. **DEADLINE is March 24, noon, for April 1 issue.** The Newsletter will not be published March 18, the week of Spring Break.



Events

INFORMATION FOR THE FACULTY AND STAFF OF CLEMSON UNIVERSITY

This calendar is prepared up to a month in advance. Please send in writing to the MASTER CALENDAR EDITOR, Trustee House, any campus event that should be listed. You also may call 656-4810 to check the UNIVERSITY MASTER CALENDAR for possible scheduling conflicts. (Call the number listed in each entry for more information.)

MAR 11 1987

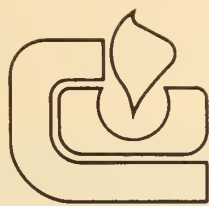
March 13-27

- | | |
|---------------------|---|
| Through
March 16 | Thlrd Clemson National Print and Drawing Competition and Exhibition. 9 a.m.-4:30 p.m. weekdays, 2-5 p.m. Sundays; Lee Gallery, Lee Hall; free. (Architecture, 656-3081) |
| Through
March 25 | Registration for Intramural badminton singles, volleyball team and table tennis singles. 8:30 a.m.-4:30 p.m., 251 Fike Recreation Center. (656-2116) |
| Through
April 15 | Exhibit: "Women at Clemson." Cooper Library. (Women's Studies Committee, 656-3153) |
| 13-14 | Baseball: Virginia. University baseball field. (656-2101) |
| 15-17 | 19th Southeastern Symposium on System Theory. (Electrical and Computer Engineering Department and the Institute of Electrical and Electronics Engineering, 656-5901) |
| 17-18 | Seminar: Improved Textile Profits Through Machine Productivity Analysis. Ramada Inn. (Professional Development, 656-2200) |
| 18-20 | Seminar: Statistical Process Control. 302 Rhodes Hall. (Continuing Engineering Education, 656-2200) |
| 20-22 | Women's tennis: Clemson Spring Classic. Sloan Tennis Center. (656-2101) |
| 21 & 28 | Short course: Sailboarding. 1-3 p.m., Y-Beach, \$20. (University Union, 656-2461) |
| 22 | Film: "The Great Mouse Detective." 7 and 9:15 p.m., Y-Theater, \$1 for the public and free for students. (University Union, 656-2461) |
| 23-April 8 | Exhibit: Master of Fine Arts Thesis Exhibition. Rudolph E. Lee Gallery, Lee Hall; 9 a.m.-4:30 p.m. weekdays, 2-5 p.m. Sundays; free. (College of Architecture, 656-3883) |
| 23 | Baseball: Maryland. 3 p.m., University baseball field. (656-2101) |
| 23 | Lecture: "Diverse Movements Toward Effective Schools: U.S. Public Education Since World War II" by Rameth Owens, assistant professor of history. 3:30 p.m., 108 Strode Tower, free. (History Department, 656-3153) |
| 23 | Lecture: "The Death of Good Taste" by Roger Rollin, Lemon Professor of English. 8 p.m., Lee Hall Auditorium, free. (Clemson Architectural Foundation, 656-3912) |
| 23 | Short course: CPR. 7-9 p.m., \$20. (University Union, 656-2461) |

(Continued on back.)

- 24 **Lecture: "Terrorism: Responses and Implications"** by Chris Sieverdes, associate professor of sociology. 3:30 p.m., M-305 Martin Hall, free. (Sociology Department, 656-3238)
- 24 **Program: "Research Opportunities with the CIA"** by Helen Boatner, director of the CIA's Directorate of Intelligence. Call the Office of University Research (656-2375) for details.
- 24-25 **Workshop: Preretirement Education** for Clemson employees within 15 years of retirement. Registration required. (Personnel Division, 656-3367)
- 24-25 **Conference: Electronics In Textiles.** Ramada Inn. (Professional Development, 656-2200)
- 24-26 **Baseball: Auburn University.** 3 p.m., University baseball field. (656-2101)
- 24 **Discussion: Clyde Edgerton, novelist.** 3:30 p.m., 315 Daniel Hall, free. (Visiting Speakers Committee, 656-3151)
- 24 **Reading: "Walking Across Egypt" by novelist Clyde Edgerton.** 8 p.m., Daniel Hall Auditorium, free. (Visiting Speakers Committee, 656-3151)
- 24 **Film: "The Day the Earth Stood Still."** 7 p.m., Y-Theater, \$1. (University Union, 656-2461)
- 24 **Coffeehouse: Dave Wopat, singer and guitarist.** 9 p.m., \$1. (University Union, 656-2461)
- 25 **Meeting: Intramural volleyball team captains and officials.** 4:30 p.m., Little Gym, Fike Recreation Center. (656-2116)
- 25 **Lecture: "The Social History of the Cotton Harvester"** by Thomas Dunlap, associate professor of history at Virginia Tech. 3:30 p.m., 200 Hardin Hall. (History Department and the W.K. Kellogg Agricultural Literacy Program, 656-5356)
- 25 **Lecture: "Cultural Sensitivity Issues In Business and Travel"** by Ed Rojas, director of the International Trade Administration of the U.S. Department of Commerce. 7 p.m., 108 Strode Tower, open to the public free of charge. (International Business Club, 656-2626)
- 25 **Seminar: Sexual Harassment and AIDS.** 7 p.m., Daniel Hall Auditorium, open to students. (Office of Human Resources, 656-3181)
- 25 **Film: "Hail Mary."** 7:30 p.m., Y-Theater, \$2. (University Union, 656-2461)
- 26 **Presentation: "Women Writers and Composers: Research In Archives."** 3:30 p.m., 108 Strode Tower, free. (Women's Studies Committee, 656-5411)
- 26-28 **Film: "Ruthless People."** 7 and 9:15 p.m., Y-Theater, \$1.50. (University Union, 656-2461)
- 26 **Lecture: "Being a Hostage"** by Jeremy Levin of Cable News Network and former hostage in Lebanon. 7:30 p.m., 200 Hardin Hall, free. (Strom Thurmond Institute, History Department and American Association of University Professors, 656-4700)
- 27 **Program: "U.S.-Middle East Relations"** by Jeremy Levin. 5:30 p.m. cash bar, 6:30 p.m. dinner; Ramada Inn. Call Chuck McKelvy at 656-3816 before March 20 for reservations.
- 27 **Baseball: Youngstown State.** 3 p.m., University baseball field. (656-2101)
- 27 **Hunter Lecture: "A Century of Technology In Medicine: What Lies Ahead?"** by Christopher Vaughan, associate professor of bioengineering and academic coordinator of the Bioengineering Alliance. 2 p.m., 100 Lee Hall. (Bioengineering Department, 656-3051)

MAR 25 1987



Newsletter

ol. 26, No. 27

March 25, 1987

Information for the Faculty and Staff of Clemson University

Briefly...

Four seats open

Nominations for an additional seat on the Commission on Classified Staff Affairs are due with the other nominations by April 15, said commission Chairman Pat Padgett.

An article in the March 4 issue of the Newsletter listed three open seats, but Tom Kasperek also will be rotating off of the commission in June with Martin Fowler, Paul Gable and Mary Ann Eddy.

Kasperek represents the colleges of Education, Engineering, Liberal Arts and Forest and Recreation Resources.

Kittrell, Morrison receive public service awards

Extension Service tobacco specialist Ben Kittrell and agricultural science associate David Morrison have been named recipients of the University's Distinguished Public Service Awards for 1986.

Both men work at Clemson's Pee Dee Research and Education Center near Florence.

Kittrell, professor of agronomy and soils, won the Superior Performance Award for outstanding achievements in Extension Service educational programs for tobacco growers.

His programs include Extension agent training, on-farm test demonstrations for agents and growers and publication of the annual tobacco growers' guide.

Morrison earned the Outstanding Service Award for his work with Kittrell in conducting demonstrations in 11 Pee Dee counties.



Jeremy Levin, former hostage in Lebanon, and his wife, Sis, speak at a news conference after his escape. The Levins will visit Clemson March 26 and 27.

Former hostage to describe his experiences tomorrow

Former hostage in Lebanon Jeremy Levin and his wife, Sis, will speak on "Being a Hostage" here March 26.

The program will begin at 7:30 p.m. in Room 200 of Hardin Hall. The public is invited without charge.

Levin was kidnapped by Arab terrorists March 7, 1984, while walking to work in Lebanon. He was held hostage 11 months and escaped Feb. 14, 1985.

At the time, Levin was the Middle East bureau chief for Cable News Network. Now he is manager of administrative services at CNN's Washington bureau.

Mrs. Levin worked in both the United States and Syria for her husband's release. After he escaped, she returned to the Middle East to attempt to negotiate for the release of

the remaining hostages.

A founder of the American Hostage Committee, Mrs. Levin has become an advocate for women's involvement in world peace-making. She works with the National Organization for Victims' Assistance Hostage Project and the Mercy Corps International Women's Network for Peace.

The Levins' visit to Clemson is sponsored by the Strom Thurmond Institute, the history department and the American Association of University Professors.

The couple also will speak at AAUP's banquet March 27. The topic will be "American Hostages: Unfinished Business in the Middle East."

For more information, call Jim Miller in the history department, 656-5368, or Julie Craig at the Thurmond Institute, 656-4700.

Zheng demonstrates nation's first bipedal robot

Yuan Zheng, assistant professor of electrical and computer engineering, unveiled the country's first two-legged walking robot at a national engineering conference in Chicago March 3.

Zheng demonstrated his three-foot-tall biped at The Spring National Design Engineering Show and Conference.

The robot is named "CURBi," short for Clemson University Robot Biped, and, said Zheng, is "the first biped that I am aware of in this country to walk on its own. Although many theoretical articles on the subject have been published, Clemson is the first to build a practical, working model."

Bipedal robots like CURBi should one day allow medical breakthroughs such as the development of walking devices that would replace wheelchairs, allowing the physically impaired easier access to stairs and uneven outdoor terrain. These same systems could provide mechanized braces to restore movement in paralyzed arms and legs.

Similar robots one day could replace humans in hazardous work conditions, such as those found in high-risk areas of nuclear power plants.

"Since many work areas are designed for humans only, multiple-legged or wheeled robots would have difficulty climbing ladders or moving around in small, confined or narrow areas with floors that aren't level," Zheng said.

"But biped robots could work in these areas and would prove especially beneficial under such conditions."

Surprisingly, it's not the size of CURBi's legs that determines how well it walks but the size of its brain.

"Unlike human locomotion, CURBi has to use all of his 512K brain to concentrate on taking one step," Zheng said. "Right now, we need four databases and a program 900 lines long because we have to tell every joint where to move and when."

Zheng said his biped uses a type

of dynamic walking, much as humans do. CURBi takes a step, momentarily loses its center of gravity, then readjusts itself by planting its foot securely on the ground.

However, Zheng said the robot will soon outgrow its software if not its shoes.

"One day, perhaps as early as next year, we will have developed the software to a point where joint movements will be pre-programmed, and we can simply command the robot to walk, then turn left or right, but by that time we will need a much larger computer system just to coordinate it all," he said.

This will free up more brain space to teach the old robot new tricks such as "running" or climbing ladders.

"Clemson has long been a national leader in coordinated robot

arm research," said A. Wayne Bennett, head of the electrical and computer engineering department, "and Yuan Zheng's breakthroughs in bipedal robotics certainly are an exciting development."

Zheng and John Luh, Quattlebaum Professor of Electrical and Computer Engineering, together worked on the robot arm research.

The Savannah River Laboratory has provided Zheng with grants of more than \$50,000 to further his research in hopes that it will prove especially useful to the nuclear industry.

Zheng's research in coordinated biped robotics earned him the state's only Presidential Young Investigator Award for 1987, making him Clemson's third award winner in the program's four-year history.

VCRs make it too easy to break copyright law, says Koonce

Now that video cassette recorders are so widely used in homes and in educational settings, more people are risking getting into trouble by breaking the copyright law.

Everyone who uses videotapes should be aware of the rules, said Roger Koonce, director of electronic and photo services at the Communications Center.

"An infringement of the law may cause a copyright owner to bring suit against even those indirectly involved, including supervisors and administrators," Koonce said.

"Statutory damages range from \$250 to \$10,000, and, on top of that,

the copyright owner also can sue for actual damages."

Koonce has a videotape and guidebook on "Copyright: What Every School, College and Public Library Should Know," which can be borrowed from the Communications Center.

The 21-minute tape and guide cover the copyright law and how it affects copyright owners, teachers, librarians, students and technicians in the Communications Center.

Koonce said that everyone on campus should pay particular atten-

(Continued on page 4.)

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University Newsletter Editor Deborah M. Slice
Student News Assistant Robert Parris
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We welcome your comments and suggestions. Call us at 656-4989 or write us at 103 Fike Center. **DEADLINE is March 31, noon, for April 8 Issue.**



Above) Clemson Rangers J.H. Drake and Dave Jolly show staff members Robert Barkley and Michael Heintze how to secure the ropes they will use to rappel down IOTC's practice tower. (Right) Barkley begins his descent. Barkley is the assistant director of admissions and Heintze is the associate director. They were invited by the Clemson Rangers to join rappelling exercises March 4.



copyright laws, cont.

on to three of the guidelines for using videotapes:

- Broadcast programs (excluding programs on pay-TV channels) may be recorded on videotape and retained by an educational institution for instructional purposes -- but only for 45 days after the recordings are made. After 45 days, they must be erased or licensed for extended use.
 - Tapes rented from video outlets normally have warning notices on them stating they are intended for home use only. Unless used specifically for in-classroom, instructional purposes, these tapes cannot be shown at a place "open to the public" or at any place where a substantial number of persons outside of a normal circle of family and its acquaintances is gathered."
 - Copyright owners have the sole right to reproduce their copyrighted works. The Communications Center cannot copy copyrighted tapes.
- To arrange to borrow the copyright law tape and guidebook, call the Communications Center at 656-3204.

Medallion nominations due soon

Nominations for the 1987 Clemson Medallion, the University's highest public honor, will be accepted until June 30, according to an announcement from the Alumni Association's Awards Committee.

Nominations and supporting materials should be sent to Vice President for Administration Hugh Clausen, 201 Sikes Hall.

The Medallion, which recognizes distinguished service both to and beyond Clemson, will be presented during an awards banquet in the fall.

Past recipients include engineer

and inventor Thomas Hunter; U.S. Sen. Strom Thurmond; Coach Frank Howard; businessmen Wilson Newman, Calhoun Lemon and Charles Wood; University presidents Robert Edwards and Walter Cox; journalist Wright Bryan; University trustees Robert Coker and James Self; and the late Frank Jervey and Wofford "Bill" Camp.

CIA executive to speak here today

Helene Boatner of the CIA will talk about "Research Opportunities With the CIA" today (March 25) at 3:30 p.m. in 108 Strode Tower.

Boatner's address is part of the Research Opportunities Program sponsored by the Office of University Research.

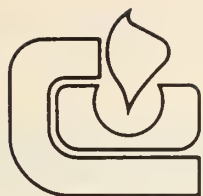
Mattie Hicks was named Housing's Custodian of the Month for January. She has been with the Housing Office since July 1970.

Hicks



- 31 **Lecture: "Water for Irrigation in South Carolina"** by Charles Privette, state Extension specialist. 2 p.m., 104 McAdams Hall, free. (Charles Carter Newman Chair in Natural Resources Engineering, 656-4084)
- 31 **Seminar: "Thinking Back on History"** by C. Vann Woodward. 3:30 p.m., Jordan Hall Auditorium, free. (History Department, 656-3153, and Calhoun College, 656-4762)
- 31 **Film: "Wrestling Women vs. the Aztec Mummy."** 7 p.m., Y-Theater, \$1. (University Union, 656-2461)
- April 1 **Film: "April Fools Day."** 7 and 9:15 p.m., Y-Theater, \$1. (University Union, 656-2461)
- 1 **Baseball: Georgia.** 7 p.m., University baseball field. (656-2101)
- 1-2 **Conference: Polyurethane Technology: The Past and the Future.** Ramada Inn. (Professional Development, 656-2200)
- 2 **Concert: Clemson University Symphonic Band.** 8 p.m., Tillman Hall Auditorium, free. (Music Department, 656-3043)
- 2-4 **Film: "Stand By Me."** 7 and 9:15 p.m., Y-Theater, \$1.50. (University Union, 656-2461)
- 3 **Meeting: University Honors Committee.** 2 p.m., 102D Tillman Hall.

Continuous YMCA-sponsored classes in women's, men's and youth's fitness, aerobics, exercise, Jazzercise, social dancing, Middle Eastern dance, swimming and aquacising, gymnastics, lifesaving, tennis, and after-school day-care and parents' night out programs. (656-2460)



Newsletter

Vol. 26, No. 28

APR 2 1987
April 1, 1987

Information for the Faculty and Staff of Clemson University

Briefly...

Ellis ACC coach of the year

Third-year Clemson basketball coach Cliff Ellis has been selected the Atlantic Coast Conference coach of the year by the Atlantic Coast Sports Writers Association.

Ellis was picked on 64 of 140 ballots cast. Duke's Coach Mike Krzyzewski finished second with 44 votes, while North Carolina's Dean Smith drew 27 votes.

In his first two seasons, Ellis' record was 16-15 and 19-15, with NIT appearances both years. The Tigers finished sixth in the league in 1985 and seventh last year.

His current 25-5 overall and 10-4 conference record is the best Clemson has ever recorded, good enough to have sent the Tigers to the NCAA Tournament for the first time since the 1979-80 season.

Child Safety Day April 4

Clemson's Delta Sigma Theta sorority will sponsor "Child Safety Day" April 4 in the Y-Barn.

From 9 a.m. until 1 p.m., your children can have their photographs taken, heights and weights measured and teeth and fillings counted.

Sorority member Linda Williams said up-to-date records could be vital in the search for missing children.

There is no charge for the service.

For more information, call Williams at 656-6394 or Alexis Reid at 654-7251.

Nominations due soon

Commission on Classified Staff Affairs nominations are due in the Personnel Office April 15.

Lecturers include ETV's Rudy Mancke

Annual Honors and Awards Day festivities set for Saturday

The University will sponsor 10 lectures and present more than 1,800 student awards during its annual Honors and Awards Day celebration April 4.

The top student awards -- the Trustees' Medal, the Algernon Sydney Sullivan Awards, the American Association of University Women Award, the Phi Kappa Phi Awards and the Atlantic Coast Conference Athletic Scholarship Academic Award -- will be presented during a noon luncheon hosted by President Max Lennon.

A Sullivan award also will be presented to an outstanding faculty member during the luncheon.

The remaining awards will be presented during 10 separate ceremonies on campus the same day. Each ceremony will feature a guest speaker.

Here are the schedule and list of speakers:

- **Army and Air Force ROTC:** 9 a.m., Tillman Hall Auditorium. President Max Lennon.

- **College of Commerce and Industry:** 10 a.m., Daniel Hall Auditorium. J.E. Sirrine Professor of Textiles Frederick Simon.

- **College of Architecture:** 2 p.m., Lee Hall courtyard. Harlan McClure, dean emeritus of the college.

- **College of Education:** 2 p.m., Holtzendorff YMCA Auditorium. John Norton, director of the S.C. Center for Teacher Recruitment in Rock Hill.

- **College of Engineering:** 2 p.m., Tillman Hall Auditorium. William Carpenter, president of Sirrine Environmental Consultants in Greenville.

- **College of Forest and Recreation Resources:** 2 p.m., 135 Lehotsky Hall. Corinne Sawyer, professor of English and director of academic special projects.

- **College of Liberal Arts:** 2 p.m., Daniel Hall Auditorium. Tom Styron, director of the Greenville County Museum of Art.

- **College of Sciences:** 2 p.m., Hunter Chemistry Laboratory Auditorium. Rudy Mancke, director of science and nature programming for the S.C. Educational Television Network in Columbia.

- **College of Agricultural Sciences:** 2:30 p.m., Poole Agricultural Center Auditorium. T.L. Senn, head emeritus of the horticulture department.

- **College of Nursing:** 3 p.m., McAdams Hall Auditorium. Sara Barger, associate dean for professional services for the college.

Founders Day Prayer Service

St. Paul's Episcopal Church
Pendleton
April 5, 5 p.m.

The Alumni Association
invites everyone
to this service,
representative of
the life and times of
Thomas Green Clemson.

"It's O.K. To Hold Hands With an Arab"

Expert on foreign social customs to speak in Daniel Hall April 7

Roger Axtell, a retired international marketing executive for Parker Pen Co., will present "It's O.K. To Hold Hands With an Arab" April 7 at 7 p.m. in Daniel Hall Auditorium.

The program is open to the public without charge.

Axtell's visit to Clemson is sponsored by the new Language and International Trade program.

Axtell, who has been involved in exporting and international trade since 1963, is the author of "Do's and Taboos Around the World," a guide to international social behavior.

He has appeared on NBC's "Today Show," the "Merv Griffin Show" and dozens of local talk shows in major cities.

"Tuesday's program will be of particular interest to faculty and students

in foreign languages, marketing, psychology and sociology and parks, recreation and tourism management," said Pat Wannamaker, director of the Language and International Trade program.

"International students and faculty also will enjoy Mr. Axtell's presentation," she said.

Axtell also will be the featured speaker at the International Trade Conference April 8 at Greenville Technical College. His presentation there will be titled "Do's and Taboos Around the World: Getting To Know Your Overseas Customer."

Registration begins at 8 a.m. and costs \$50. The first 30 registrants from Clemson will be admitted free.

Call Wannamaker at 656-2626 for more information.

Rules of thumb

Roger Axtell will speak Tuesday on "It's O.K. To Hold Hands With an Arab" and other rules of thumb for international social behavior.

Here's a sample of etiquette from other countries:

- Avoid discussing controversial political issues. In fact, to do so is illegal in South Korea.
- The "o.k." sign with the thumb pressed to forefinger is obscene in Brazil and the Soviet Union.
- Waving the hand back and forth to signify hello or goodbye means "no" in Europe and is a rude gesture in Greece.
- In Bulgaria and Yugoslavia, a nod of the head means "no," and shaking the head back and forth means "yes."
- In the Far East, eye contact is considered rude and intimidating. In Europe and Latin America, it suggests sincerity.

Committee ready to receive employees' suggestions

University employees are encouraged to begin looking around their departments for ideas on improving office productivity and saving money, said Mark Eisengrein, chair of the Employee Suggestion Committee.

"We really want a lot of employees to send in suggestions about the University or any state agency," Eisengrein said. "We're taking this program very seriously."

As reported in the Jan. 28 issue of the Newsletter, the Employee Suggestion Program's purpose is to tap the creativity and cost-saving ideas of state employees and provide cash awards and commendations for their suggestions.

If an employee's suggestion is accepted, he or she will receive a check for 25 percent of the first year's net savings one year after the suggestion is put into effect.

More information about the program will be mailed to each employee. Eisengrein, director of Alumni

Relations, represents the vice-presidential area of Institutional Advancement on the Employee Suggestion Committee.

Other committee members are Joy Smith, vice chairperson, representing Student Affairs; Steve Chapman, Agriculture and Natural Resources; Marty Koldyke, Academic Affairs; Bill Pace, Administration; Jim Shanahan, Business and Finance; and Dick Simmons, Personnel.

Call Simmons at 656-2426 to request suggestion forms.

Completed forms will be reviewed by the S.C. Division of Human

Resource Management, appropriate University administrators and department heads, the Employee Suggestion Committee and a committee of nine members appointed by the S.C. Budget and Control Board.

Anyone who has participated in the Experiment in International Living program is asked to call Jim Miller, associate professor of geography, 656-5368 or 646-9054.

Miller would like to talk to others who may be able to help him develop a program in the Clemson area.

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University Newsletter Editor Deborah M. Slice
Student News Assistant Robert Parris
Acting Director, News Services ... Catherine Sams

We welcome your comments and suggestions. Call us at 656-4989 or write us at 103 Fike Center. **DEADLINE Is April 7, noon, for April 15 Issue.**

University welcomes 36 new employees

The University welcomes these 36 new employees who joined Clemson the past three months:

Admissions and Registration: Richard Noyes, student services specialist; Tammy Rothell, key and peripheral operator.

Agricultural Economics and Rural Sociology: Karen O'Conner, word processor operator.

Agricultural Education: Ruth Lathias, administrative specialist.

Agricultural Engineering: Abdel Wahed Badr, visiting assistant professor; David Brune, associate professor.

Animal Science: Glen Crowe, agricultural science associate.

Architecture: Diane Little and Vinnie Pace, administrative specialists.

Chemical Engineering: Diana Short, word processor operator.

Commerce and Industry dean's office: Brenda Blankenship, executive support specialist.

Computer Center: Janice Richardson, computer operator; Kathy Shealy, accounting technician.

Dairy Science: Candace Cummings, agricultural aide;

Catherine Leap, clerical specialist.

Extension Service: Gloria Quick, clerical specialist.

Facility Planning and Management: Kaye Lawson, executive support specialist.

Finance: Michael Spivey, assistant professor.

Horticulture: Alexander Sprott, agricultural science associate.

Housing: David Jones, May Black and Gerald Hicks, custodial workers.

Industrial Education: Roberta Bauer, instructor.

Institutional Advancement: Gary Ransdell, vice president.

Livestock and Poultry Health: William Guthrie, meat inspector.

Parks, Recreation and Tourism

Management: John McCrone, professor.

Planning Studies: John Wall, visiting assistant professor; James London, visiting associate professor.

Plant Pathology and Physiology: Daniel Kluepfel, assistant professor.

Poultry Science: Bruce Glick, professor and head of the department; Joseph Bricker, assistant professor and research associate; Lillian Lappie, word processor operator.

Psychology: Marquita Adams, research associate; Patricia Knowles, visiting assistant professor.

Service and Support Facility: Mark Garrison, supply specialist.

Textiles: H. Norman Lee, textile science mechanic.

Horticulture gets new head

A researcher in tissue culturing has been named head of the horticulture department.

Daniel Lineberger, a faculty member at The Ohio State University since 1977, will begin his duties at Clemson April 1. He succeeds Jere Brittain, who has served as acting department head for the past 18 months.

Lineberger's research centers on cultivating horticultural plants with multiple genetic traits through cloning. He also has developed tissue culture propagation systems for a number of plant species.

Lineberger earned his bachelor's degree from N.C. State University and his master's and doctorate from Cornell University.



A Tree Grows in Clemson -- Again

John Allen, right, director of visitor programs, and Andy Anderson, supervisor of landscape and grounds, watch as a 25-foot Southern Red Oak is planted on the east lawn of the Calhoun Mansion. On this site in May 1888, under an oak tree, the first trustees met to plan their strategy to have the state accept Thomas Green Clemson's bequest of \$80,000 and 814 acres to start an educational institution. The tree shown here will be called the "Second Century Oak" as a replacement for the original "Trustee Oak," in time for the coming centennial. It was donated by Ray Bracken Nursery of Easley and planted by Bracken and Black Nursery of Piedmont.

Mark your calendars for three concerts

This week will be a busy one for concert-goers because the University is sponsoring three: the Clemson University Symphonic Band, the Audubon String Quartet and jazz artists Alex DeGrassi and Mark Egan.

Band honors Butler

The Symphonic Band will present a concert April 2 at 8 p.m. in Tillman Hall Auditorium honoring John Butler, who is retiring as head of the music department.

There will be no charge for admission.

The program will feature selections Butler arranged for the band while he was director from 1960 to 1980, including George Bizet's Suite from the opera "Carmen."

The band will open the program with "Marche Hongroise" from Hector Berlioz's "The Damnation of Faust." Other marches and lighter works will round out the evening's

performance.

A reception sponsored by the Clemson University Tiger Band Association will be held in the Alumni Center after the concert.

The Symphonic Band will perform again April 12 at 3 p.m. in the Outdoor Theater.

For more information, call the music department, 656-3043.

Quartet plays April 6

The Audubon String Quartet will conclude the 1986-87 Clemson University Concert Series with a performance in Tillman Hall Auditorium April 6 at 8 p.m.

Admission will be \$6 for adults and \$2 for children.

The concert will feature Haydn's String Quartet No. 1 in B-flat, Beethoven's Quartet No. 15 in A Minor and two shorter works: "Italian Sernade" by Hugo Wolf and

"Crisanthemums" by Puccini.

The quartet-in-residence at the Virginia Polytechnic Institute and State University, the Audubon String Quartet has performed at the White House and on national television.

Jazz artists to perform

Windham Hill Records guitarist Alex DeGrassi and Hip Pocket Records bassist Mark Egan will perform April 7 at 8 p.m. in Tillman Hall Auditorium.

Tickets, \$5 for students and senior citizens and \$8 for the public, are on sale now at the University Union box office. The box office is open from noon to 5 p.m. Monday through Friday.

DeGrassi and Egan's performance here will be the last in the Performing Artist Series this semester.

For more information, call the Union at 656-2461.

Departmental notes

Animal Science

The following papers were presented at the annual meeting of the Southern Section of Animal Science in Nashville, Tenn., in February:

- "Two-Year Marketing Data Comparing Prices Paid for Precondition, On-Farm and Assembled Feed Calves" by **H.W. Webster** (Prof).
- "Breeding Soundness Evaluation Results in Performance-Tested Beef Bulls" by **J.C. Spitzer** (Assoc Prof).
- "The Dependence of Ruminant Fermentation on an Exogenous Supply of Lipid" by **T.C. Jenkins** (Asst Prof).
- "Estrous and Pregnancy Response Following Treatment With Luprostiol" by **N.I. Plata** (Grad Asst).
- "Effect of Selenium- and Endophyte-Contaminated Fescue on Performance and Reproduction in Mares" by **J.L. Monroe** (Grad Asst).
- "Five-Year Comparison of Five Dam Breeds on Two Levels of Nutrition" by **S.E. Meadows** (Grad Asst).
- "Effect of Compudose-Controlled

Release Implants on Growing and Finishing Beef Heifers" by **L.J. Johnson** (Grad Asst).

Jenkins and **D.L. Palmquist** (The Ohio State Univ) were issued a patent for a process and composition for supplying fatty acids in the form of their calcium salts as supplements for ruminant diets. Jenkins also was awarded \$3,500 from Eastman Kodak Co. for research on the effects of branched-chain fatty acids and phospholipids on ruminal fermentation and composition of bacterial cell membrane lipids.

D.L. Cross (Prof) and **L.W. Hudson** (Prof) chaired sessions during the same meeting. Hudson also was elected secretary of the Extension group.

Aquaculture, Fisheries and Wildlife

A.G. Eversole (Prof) presented "Fecundity of Different Stocks of Hard Clams," written with **R.S. Knaub** and **J.S. Goodsell** (Grad Assts), at the 18th annual meeting of the World Aquaculture Society in Ecuador in January.

Building Science

R.W. Liska (Assoc Prof) led a training session for visiting team members at the mid-year board meeting of the American Council for Construction Education in San Antonio, Texas. Liska is chairman of the National Accreditation Committee and a member of the national board of trustees.

Chemistry

K. Dill (Assoc Prof) presented an invited lecture, "Natural Abundance ¹³C NMR Studies of Glycoproteins and Spin-Echo, 1-D and 2-D NMR Studies of the Interaction of Phenylchloroarsine With Intact Erythrocytes," at Texas Tech University.

Dill and **K.A. Culp** (Grad Stu) published "³¹P-NMR Spectral Study of Enzymatically Phosphorylated Glycophorin A" in *Journal of Protein Chemistry*.

R.A. Abramovitch (Prof), **D. Kishore** and **M. Konieczny** (Research Assocs) and **Z. Dauter** (Univ of York, England) published "Reaction of Pyridine 1-Oxide With Methyl Propiolate: A Pyrido-Oxepine

and Other Novel Products" in aterocycles.

ivil Engineering

S.C. Anand (Prof) was invited by the ational Science Foundation to be part of team of U.S. experts participating in the do-U.S. Workshop on Earthquake isaster Mitigation in New Delhi, India, in anuary. Workshop participants defined earthquake engineering problems that are ommon to both countries and explored e possibility of collaborating on e search that would help reduce health ks and property damage associated ith earthquakes.

omputer Science

R.M. Geist III (Assoc Prof) and S. aniel (Thinking Machines Inc.) published A Continuum of Disk Scheduling Algo-thms" in ACM Trans. on Computer icience. Geist and J. Atkins (Univ of Vest Virginia) published "Fibonacci Num-bers and Computer Algorithms" in The ollege Mathematics Journal.

M. Smotherman (Asst Prof) presented On the Use of Naming and Binding in Early Courses" at the ACM SIGCSE Tech-nical Symposium in St. Louis in February.

Electrical and Computer Engineering

"A Five-Year Review of the Industrial Graduate Fellowship Program at Clemson University," a paper by **J. Gowdy** (Prof) and **W. Bennett** (Prof and Head), was presented at the ASEE College Industry Education Conference in Orlando, Fla., in February.

Elementary and Secondary Education

W.H. Leonard (Prof) published "Does the Presentation Style of Questions Inserted Into Text Influence Understanding and Retention of Science Concepts?" in Journal of Research in Science Teaching and "Testing the Hypothesis Through Experiments" in Biology: The Unity and Diversity of Life.

R.D. Hefley (Asst Prof) presented "Activities to Enhance Basic Skill Develop-ment Within Mildly Handicapped Popula-tions" at the Southern district convention of the American Alliance of Health, Physical Education, Recreation and Dance in Birmingham, Ala.

G.F. Elrod (Vstg Asst Prof) presented "A Survey of Vocational Educators' Perceptions of Skills Needed for Success in Vocational Training: Implications for

Vocational Special Needs Education" at the S.C. Council for Exceptional Children Conference in Hilton Head.

English

D. Tillnghast (Assoc Prof) published the poem "Under the Rainbow" in Louisiana Literature.

E.P. Willey (Assoc Prof) published "At Home" in Light Year '87, and his "Family Eccentric" was reprinted in Writing Poems.

Entomology

The following papers were presented at the annual meeting of the Southeastern branch of the Entomological Society of America in Jackson, Miss., in January:

- "Techniques Used in Forensic Entomology" by **T.R. Adkins** (Prof Emeritus).
- "Dynamics of Sugar Feeding in *Heliothis zea* (Lepidoptera:Noctuidae)" by **P.H. Adler** (Asst Prof).
- "The Relationship Between Systemic Pesticide (Aldicarb) Application and Its Availability for Crop Uptake in a Pecan Orchard System" by **J.A. Hornby** (Grad Research Asst) and **D.R. Alverson** (Assoc Prof).
- "Hessian Fly Management: Should Preventative Treatment Be Recom-mended" by **J.W. Chapin** (Assoc Prof) and **M.J. Sullivan** (Prof).
- "Area-Wide Population Dynamics of the Corn Earworm in South Carolina" and "Heliothis Species and Their Parasites on Field Crops in South Carolina" by **J.D. Culin** (Asst Prof).
- "Interactions of the Parasitoids *Micropoliticscroceipes* and *M. demolitor* (Hymenoptera: Braconidae) With Micro-sporidian Pathogens of *Heliothis virescens*" by **S. Horosko III** (Grad Research Asst) and **R. Noblet** (Prof).
- "Evaluation of Synerid Liquid Bait Solution for Control of Adult House Flies" by **M.P. Nolan III** (Extension Grad Asst) and **J.B. Kissam** (Prof).
- "Management of *Heliothis* Species on Cotton in South Carolina in the Absence of Economic Infestations of Boll Weevils" by **M.E. Roof** (Assoc Prof), **R.G. Jones** (USDA-APHIS), **M.J. Sullivan** (Prof) and **S.G. Turnipseed** (Prof).
- "A Comparison of Predators and Secondary Insect Pests in Cotton Treated With Pyrethroids vs. Biologicals" by **Turnipseed** and **Sullivan**.

T.E. Skelton (Prof) was named president-elect of the Entomological

Society of America's Southeastern branch. He will assume the office in January 1988.

K.M. Hoffman (Grad Asst) published "Earwigs (Dermaptera) of South Carolina, With a Key to the Eastern North American Species and a Checklist of the North American Fauna" in the proceedings of the Entomological Society of Washington.

More than 425 pest-control firm repre-sentatives, industry suppliers, scientists and regulatory officials attended the 28th Pest Control Operators School held here in February. The school was sponsored by the Extension Service, the entomology department and the S.C. Pest Control Association. Several people from the entomology department participated:

- **J.B. Kissam** (Prof) was program chairman. He also was inducted into the Pest Control Hall of Fame by the association.
- **T.E. Skelton** (Prof) presented "What Do You Know About Insects?"
- **P.A. Zungoll** (Asst Prof) presented a report on Clemson's research on Formosan termites and cockroaches.
- **M. Chambers** and **E. Benson** (Grad Research Assts) conducted an insect identification workshop and presented reports on Formosan termites and the smoky-brown cockroach.
- **M.M. Donaldson** (Undergraduate) was awarded the Cochran Memorial Scholarship by the association.
- **V.H. McCaskill** (Lect and Head, Fertilizer and Pesticide Control) and **N. Ogg** (Pesticide Coordinator) conducted a workshop for pest-control managers and owners on wood-destroying organisms.
- T.M. Brown** (Assoc Prof) and **W.G. Brogdon** (Center for Disease Control in Atlanta) published "Improved Detection of Insecticide Resistance Through Conventional and Molecular Techniques" in Ann. Rev. Entomol. 1987. Brown also pre-sented the invited seminar and workshop, "Mechanisms of Insecticide Resistance," as part of a continuing education program at the University of Georgia Agricultural Experiment Station.

P.J. Sieburth (Former Grad Research Asst) and **G.R. Carner** (Prof) published "Infectivity of an Iridescent Virus for Larvae of *Anticarsia gemmatilis* (Lepidoptera: Noctuidae)" in Journal of Invertebrate Pathology.

T.R. Adkins (Prof Emeritus) and **W.D. Lord** (FBI, Washington, D.C.) presented

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notes, cont.

"Use of Insects to Predict Time of Death of a Human Corpse Under a House" at the annual meeting of the Entomological Society of America in Reno, Nev., in December.

At the same meeting, **P.H. Adler** (Asst Prof) presented "Behavioral Time Budget for Larvae of the Corn Earworm" and chaired a symposium, "Patterns in Habitat-Related Variation in Insects."

Adkins was invited to present a seminar, "Forensic Entomology," at the 1987 Winter Quarter Biology Seminar Series to the department of biology of Georgia Southern College.

Adler gave an invited symposium paper, "Integrating Cytotaxonomy and Classical Morphological Taxonomy," at the Eastern branch of the Entomological Society of America meeting in Philadelphia.

Environmental Systems Engineering

J.C. Jennett (Engineering Dean and ESE Prof) presented a seminar, "Environmental Infrastructure Problems in the 21st Century," to the U.S. Army Corps of Engineers' construction engineering research laboratory in Champaign, Ill., in February.

Extension Home Economics

L. Gardner (Assoc Prof) presented "Independent Living: Housing for the Elderly" at the World Congress on Housing Trends sponsored by the International Association of Housing Science in Miami, Fla.

Finance

S. Sirmans (Assoc Prof) is one of five researchers to receive the international Homer Hoyt Advanced Studies Institute's 1987 Post Doctoral Award, given annually by the institute's School of Advanced Studies in Real Estate and Land Economics. He received the award for his study of the effects of creative financing on real estate prices.

Forestry

D.C. Guynn (Prof) and **R.F. Harlow** (USFS, retired) published "Foods, Food Habits and Food Habits Analysis Studies of White-Tailed Deer (A Selected and Annotated Bibliography)" as an occasional paper for the department of forestry.

Harlow and **D.H. Van Lear** (Bowen

Prof) published "Silvicultural Effects on Wildlife Habitat in the South (An Annotated Bibliography)" as Clemson University Forestry Department Technical Paper No. 17.

Van Lear and **S.M. Jones** (Ag Science Assoc) published "An Example of Site Classification in the Southeastern Coastal Plain Based on Vegetation and Land Type" in Southern Journal of Applied Forestry.

Van Lear, **S.J. Danilevich** (Former Grad Asst), **S.K. Cox** (Ag Science Assoc) and **M.K. Augspurger** (Ag Science Assoc) presented "Burning in Southern Appalachian Logging Slash: Effects on Residual Vegetation and Regrowth" at the Sixth Central Hardwood Conference in Knoxville, Tenn.

A.P.C. Marsinko (Asst Prof), **D.R. Phillips** (Adj Prof, USFS) and **J.M. Vasievich** (USFS) published "Hardwood Growth and Yield: A Selected Annotated Bibliography" as Hardwood Research Council Technical Paper No. 1.

History

C. Bleser (Prof):

- presented "The Assessment of the Publications and Records Program of the National Historical Publications and Records Commission" at the Southern Historical Association meeting in November.

- has been appointed to the Archival Fellowship Program Committee of the National Archives.

- was appointed to the Publications and Marketing Committee of the National Historical Publications and Records Commission.

- will have The Hammonds of Redcliffe published in paperback by Oxford University Press in April.

T. Kuehn (Assoc Prof) reviewed Guido Ruggiero's The Boundaries of Eros in Speculum and published "Law Schools" in the Dictionary of the Middle Ages.

J. Wunder (Prof and Head):

- talked to Greenwood High School American history classes about preparing for the Advanced Placement exam in American history.

- participated in the symposium "The Development of Modern Lubbock: Community in West Texas," sponsored by Texas Tech University.

- talked to students at Greenville's Southside High School about native Americans as part of Brotherhood Week in February.

- talked to students at Clemson's

Edwards Junior High School about "Plains Indians: From Sand Creek to Wounded Knee."

- published "Coming of Age: Lubbock in the State and National Political Arena, 1945-1980" with **W.H. Rollings** in Lubbock: From Town to City.

A. Schaffer (Prof) also talked to Southside High School students in February. His address was titled "Jews in the United States."

R.M. Golden (Prof) has been invited to chair the Nancy Lyman Roelker Prize Committee, which annually recognizes the best article published in English on early modern French history or literature.

Horticulture

A. Melton (Ag Science Assoc) presented a poster paper, "Screening Southern Peas for Resistance to Virus," by Melton, **O.W. Barnett Jr.** (Prof, Microbiology), **J.D. Caldwell** (Asst Prof) and **W.L. Ogle** (Prof) at the ASHS-Southern Region meeting in Nashville, Tenn. Melton also presented "Inheritance of Resistance to Viruses in Cowpeas" by Ogle, Caldwell and Barnett, at the Southern division meeting of the American Phytopathological Society in Nashville.

E.T. Sims Jr. (Prof) presented two papers at the ASHS meetings in Nashville: "Slurry Storage of Sweet Potato Prior to Ethanol Fermentation," written with **M.G. Hamilton** (Prof), **A. Jones** (USDA) and **D.M. Price** (Research Spec); and "Strategies for Implementation of Postharvest IPM: Fresh Market Peaches," written with **R.A. Baumgardner** (Prof) and **C.D. McNeal Jr.** (USDA).

M.G. Hamilton published "Sumor: A Multi-Use Sweet Potato," written with **P.D. Dukes**, **A. Jones** and **J.M. Shalk** (USDA), in HortScience.

J.G. Williamson (Grad Research Asst), **D.C. Coston** (Prof) and **D.A. Williamson** published a cover feature paper, "Darkfield Illumination: An Alternative Technique for Photomicrography," in HortScience.

Five professors were invited to participate in the Spring Garden Seminar in Anderson in March. Presenters and topics were:

- "Landscaping the Home Grounds" by **R.G. Halfacre** (Prof).

- "Perennials for the Piedmont" by **J.W. Kelly** (Asst Prof).

- "Old Roses" by **A.R. Kingman** (Assoc Prof).

- "Plant Culture, Planting, Pruning, Fertilizing" by **J.P. Fulmer** (Prof Emeritus).

• "Organic Vegetable Gardening" by **W. Bradshaw** (Assoc Prof).
J.D. Ridley (Assoc Prof) was presented the Carroll R. Miller Award by the National Peach Council for Distinguished Service to the peach industry.

Housing

E. Singleton (Assoc Dir, Residential Services) received an award from the Southeastern Association of Housing Officers for meritorious service to the students and Housing Office of Clemson. Singleton was presented the award by **eg Padgett**, director of residential services, March 5.

Industrial Education

A.F. Newton (Prof and Head) presented "Technological Literacy for South Carolina Youth" at the regional meeting of South Carolina guidance counselors and placement coordinators in Greenville.

C.H. Isbell (Assoc Prof), **G.G. Ovedahl** (Assoc Prof) and **D.G. Solowski** (Assoc Prof) presented "Utilizing Needs Assessment Techniques 'Predict' the Future" at the 10th annual conference of the Southern Futures Society in Baton Rouge, La.

Industrial Engineering

B.R. Moody and **E.B. Daughtry** (Undergraduates) presented papers at the 26th annual Institute of Industrial Engineers Student Conference in Puerto Rico. Moody was awarded first place for her paper, "Development of a Maintenance Program for Westinghouse Licarta Division."

Languages

J.B. Macy (Asst Prof, French) served as consultant for the Beaufort County school district's Academic Challenge Competition in February.

E.P. Arnold (Asst Prof, German) published "Humor As an Instructional Tool in the German Classroom" in *Schatzkammer*.

M.M. Sinka (Assoc Prof, German) presented "The Game of Games: Psychological Chess in Stefan Zweig's Schachnovelle" at the Southeastern Conference on Literature and Language in Winter Park, Fla., in February.

P.R. Heusinkveld (Asst Prof, Spanish) published "Subjunctive With Spirit" in *HISPANIA*. She also presented "Communicating Across Cultural Barriers" at the U.S. Development Advisory Team

workshop co-hosted by N.C. State University and Michigan State University in Greensboro.

Mathematical Sciences

J.V. Brawley (Alumni Prof), a member of the Mathematical Association of America Visiting Lecturer's Panel, presented "An Excursion in Applied Mathematics" at the University of South Carolina at Spartanburg in March. Brawley and **G. E. Schnibben** (Former Grad Student) published "Polynomials Which Permute the Matrices Over a Field" in *Linear Algebra and Its Applications*.

Mechanical Engineering

A.C. Elrod (Assoc Prof) presented "Continuous Camlobe Phasing: An Advanced Valve-Timing Approach," written with M.T. Nelson (Lucas CAV), at the SAE Congress and Exposition in Detroit, Mich.

J.G. Brasseur (Asst Prof), S. Corrsin and N.Q. Lu published "The Influence of a Peripheral Layer of Different Viscosity on Peristaltic Pumping With Newtonian Fluids" in *Journal of Fluid Mechanics*.

J.A. Liburdy (Prof) and **S. Robinson** (Former Grad Asst) published "Predictions of Natural Convection Heat Transfer From a Horizontal Disk" in *Journal of Heat Transfer*.

H.J. Rack (Prof) presented an invited paper, "Lightweight, High-Strength, Metal Matrix Composites," and chaired a technical session on "Fatigue and Fracture Behavior on Titanium Alloys" at the AIME annual meeting in Denver, Colo.

Rack visited France in February as a guest of the French Ministère de la Recherche-CESTA. While there, he presented a series of seminars on discontinuously reinforced metal matrix composites.

Nursing

O. Shanahan (Student Services Coordinator) was appointed to the Continuing Education Services to Business and Industry Committee for the S.C. Association for Higher Continuing Education.

D.R. Moore (Media Resources Coordinator) served on the committee to help organize the annual conference of the Association for Educational Communications and Technology and COMMTEx International in Atlanta.

J.B. Edwards (Asst Prof) presented "Gender Differences in Communication: Implications for Health Care Providers" at

the Communicating With Patients Multidisciplinary Conference at the University of South Florida.

S.E. Barger (Asst Prof and Assoc Dean, Professional Services) presented "Nursing Faculty Practice: Institutional and Individual Facilitators and Inhibitors" at the Fourth Annual Nursing Faculty Practice Symposium sponsored by the American Academy of Nursing in Tucson, Ariz.

Parks, Recreation and Tourism Management

J. Stevenson (Prof and Honors Program Dir) led:

- a two-hour workshop, "Motivating Seasonal Employees," for the Eastern Professional River Outfitters' annual conference in Knoxville, Tenn.
 - a three-hour workshop on "Life and Work: Giving and Getting the Most You Can" for the National Recreation and Park Association at the annual Forum on Innovative Programming near Eatonton, Ga.
 - a two-hour team-building session for the Pickens County Rape Crisis Council and about 25 volunteers-in-training.
- F.A. McGuire** (Assoc Prof) led a program on "Exercises for the Elderly" at the National Recreation and Park Association/Edith Upchurch Innovative Programming Workshop in Eatonton, Ga. McGuire also presented "Humor as Therapy" at the Activities Therapy Symposium in Columbus, Ga.

Psychology

P.A. Connor-Greene (Asst Prof) and **J.G. Williams** (Asst Prof) received a Ford Foundation grant through the Duke/UNC Women's Studies Program to develop a course on gender and mental health.

Physics and Astronomy

- A.L. Laskar** (Prof):
- received \$35,000 to research "Metal Azide Crystals and Their Characteristics."
 - presented a colloquium, "Physics of Silver Halides," at the Max Planck Institute in Stuttgart in September.
 - presented an invited paper, "Diffusion of Cesium, Cerium and Sulfur in Silver Halides and Size Effects of the Solutes," at the International Congress of Photographic Science in Cologne, Germany.
 - presented two papers at the Fifth

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notes, cont.

Europhysical Topical Conference on Lattice Defects in Ionic Crystals in Madrid, Spain: "Study of Ionic Thermocurrent in Potassium and Rubidium Azides," written with **W.B. Mealling** (Former Grad Stu); and "Size Effect of the Solute on the Impurity Diffusion in Silver Halides," written with **K.V. Reddy** (Vstg Asst Prof), **B. Popson** (Grad Stu) and **S. Mitra** (Former Grad Stu).

R.C. Turner (Prof) presented an invited lecture on "Physics of Toys" at the Conference on Recent Advances in Physics at the University of North Carolina at Chapel Hill. Turner also published "Toys in Physics Teaching: Balancing Man" in American Journal of Physics.

J.R. Ray (Prof), **M. Moody** (Former Grad Stu) and **A. Rahman** (Univ of Minnesota) published "Close-Packed (Polytypic) Structures in Molecular-Dynamics Simulations" in Physical Review. Ray and **H.W. Graben** (Prof) published "Fundamental Treatment of the Isoenthalpic-Isobaric Ensemble" in Physical Review.

Ray also presented a talk, "Spin and Gravitation," to NASA and University of Alabama scientists in September.

P.B. Burt (Prof) presented "New, Nonperturbative Approaches to Nonlinear Theories" at the University of Georgia.

Plant Pathology and Physiology

S. W. Westcott III (Vstg Asst Prof) and **S.V. Beer** and **W.C. Stiles** (Cornell Univ) published "Infection of Apple Roots by Actinomycetes Associated With Soils Conducive to Apple Replant Disease" in Plant Disease.

R.A. Haygood (Asst Prof), **C.H.**

Graves (Mississippi State Univ) and **W.H. Ridings** published "Phytophthora Root Rot and Stem Canker of Peach Trees in Mississippi" in Plant Disease.

G. Klingsland (Prof) published "Pathogenicity and Epidemiology of *Corynespora cassiicola* in the Republic of Seychelles" in Tropical Pest Management.

B.A. Fortnum (Assoc Prof), **R.E. Currin III** (Prof) and **J.P. Krausz** (Former Assoc Prof), all with the Pee Dee Research and Education Center, published "Water Absorbent Polymer Aids in the Infestation of Field Sites With *Meloidogyne* Eggs" in Journal of Nematology.

L.W. Baxter Jr. (Prof), **A.M. Sprott** (Grad Asst), **S.B. Segars** (Ag Science Assoc) and **S.G. Fagan** (Ag Science Asst) published "Black Root Rot and Stem Blight of Camellia" in The Camellia Journal.

Political Science

M.A. Morris (Prof), **C. Bailey** (Auburn Univ) and **D. Cycon** (Woods Hole Oceanographic Institution) published "Fisheries Development in the Third World: The Role of International Agencies" in World Development. Morris also published "Comparing World Navies" in Current World Leaders.

C.W. Dunn (Prof and Head) published "Some Modest Propositions About an Immodest Subject" in PS.

Professional Development

R. Elliott (Prof and Dir) published "Select Appropriate Growth Strategies To Remain Successful in Continuing Education" in Adult and Continuing Education Today. He also presented a seminar on "How To Improve Continuing Education Success" to the faculty, staff

and administration at Wayne State University in Michigan and another seminar on "Increasing Registrations and Revenue Through Effective Seminar/Conference Marketing" to 40 representatives from universities, colleges, hospitals and private firms.

Elliott published a manual, Effective Marketing and Selling of In-House Programs, through the Learning Resources Network in Kansas.

Sociology

S. Kenig (Asst Prof) and **J. Ryan** (Asst Prof) published "Sex Differences in Levels of Tolerance and Attribution of Blame for Sexual Harassment on a University Campus" in Sex Roles: A Journal of Research.

J. Ryan (Asst Prof) reviewed Chris Rojek's Capitalism and Leisure Theory in Social Forces.

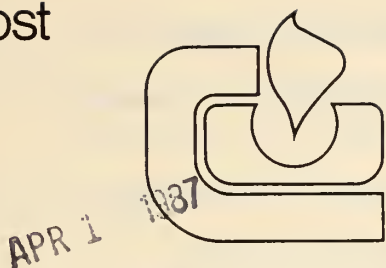
R.F. Larson (Prof and Head) published the fourth edition of Study Guide for Statistics: A Tool for the Social Sciences.

Textiles

H.M. Behery (Prof) visited Portugal's Universidade da Beira Interior (UBI) in February to present a plaque to Reitor Passios Morgado in recognition of his support of the Academic and Research Exchange Program. Sponsored by USA/AID, the exchange program is Clemson's project for faculty and program development at UBI. From 1981 to 1985, faculty members from Clemson's departments of accounting, chemistry, chemical and mechanical engineering, management and textiles and the Graduate School worked in undergraduate and graduate development at the university. During his visit to Portugal, Behery proposed an extension of the exchange program.

Tornado Safety Tips from the University Safety and Fire Prevention Committee

- If a cloudy sky becomes stormy or rough, tune in to radio or TV broadcasts for National Weather Service advisories. Watch the sky southwest of Clemson.
- If a tornado watch is issued, plan your retreat to a basement with no windows, a bottom floor hallway, interior hallway or small interior room.
- If a tornado warning is issued, or if you see a funnel cloud or hear a roaring sound, go directly to refuge. Do not seek shelter in gymnasiums, auditoriums, laboratories, dining halls, classrooms, elevators, stairwells, utility areas, nonmasonry buildings, mobile homes or cars.
- Sit down on the floor, duck your head between your knees and cover your head with your hands.
- If you're outside, lie flat in a ditch or culvert.
- Leave your refuge with caution. More than one tornado can come with one storm.



Events

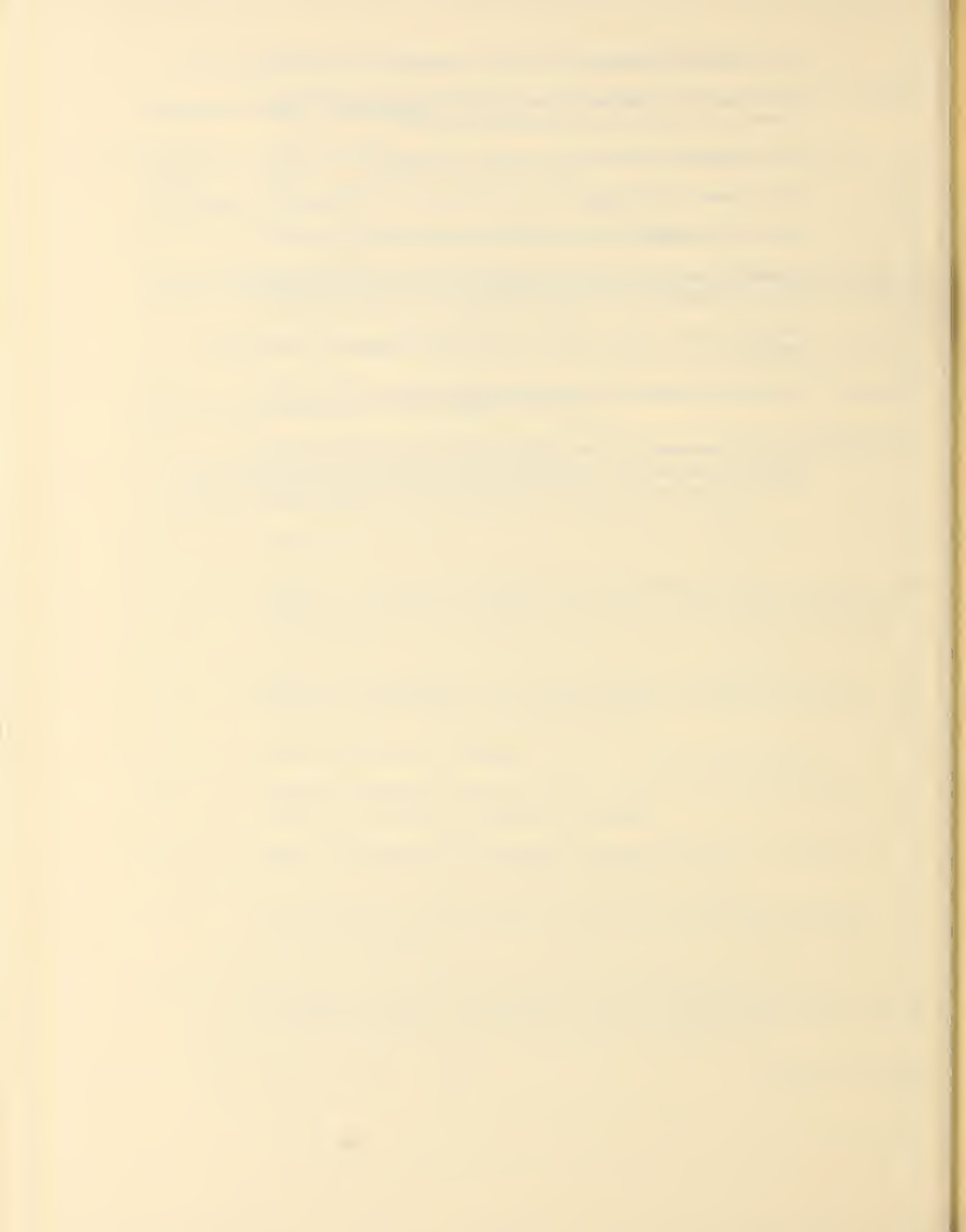
INFORMATION FOR THE FACULTY AND STAFF OF CLEMSON UNIVERSITY

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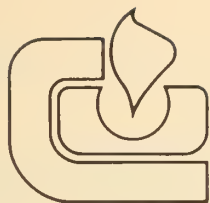
April 3-10

- Through April 15 **Exhibit: "Women at Clemson."** Cooper Library. (Women's Studies Committee, 656-3153)
- Through April 8 **Exhibit: Master of Fine Arts Thesis Exhibition.** Rudolph E. Lee Gallery, Lee Hall; 9 a.m.-4:30 p.m. weekdays, 2-5 p.m. Sundays; free. (College of Architecture, 656-3883)
- 2-4 **Film: "Stand By Me."** 7 and 9:15 p.m., Y-Theater, \$1.50. (University Union, 656-2461)
- 3 **Lecture: "America's Agriculture: A Valuable Natural, National Resource"** by Peter Myers, deputy secretary of the U.S. Department of Agriculture. 2 p.m., Poole Agricultural Center Auditorium, free. (Newman Seminar and Lecture Series, 656-4084)
- 3 **Workshop: Research Animal Welfare.** 2-3 p.m., F-149 Poole Agricultural Center, open free to faculty, staff and students who use research animals and to all other interested persons. (Office of University Research, 656-2375)
- 3-4 **Edgar's entertainment: "David and the Outsiders."** 9 p.m., \$1. (University Union, 656-2461)
- 3 **Meeting: University Honors Committee.** 2 p.m., 102D Tillman Hall.
- 4 **Women's tennis: North Carolina.** Sloan Tennis Center. (656-2101)
- 4 **Child Safety Day.** 9 a.m.-1 p.m., Y-Barn, free. (Delta Sigma Theta sorority, 656-6394)
- 4 **Honors and Awards Day luncheon.** Noon, Clemson House. (Calhoun College, 656-4762)
- 4 **Honors and Awards Day ceremonies:** Army and Air Force ROTC, 9 a.m., Tillman Hall Auditorium; Commerce and Industry, 10 a.m., Daniel Hall Auditorium; Architecture, 2 p.m., Lee Hall courtyard; Education, 2 p.m., Holtzendorff YMCA Auditorium; Engineering, 2 p.m., Tillman Hall Auditorium; Forest and Recreation Resources, 2 p.m., 135 Lehotsky Hall; Liberal Arts, 2 p.m., Daniel Hall Auditorium; Sciences, 2 p.m., Hunter Chemistry Laboratory Auditorium; Agricultural Sciences, 2:30 p.m., Poole Agricultural Center Auditorium; and Nursing, 3 p.m., McAdams Hall Auditorium. (Calhoun College, 656-4762)
- 4 **Baseball: N.C. State.** 7 p.m., University baseball field. (656-2101)
- 4-11 **Short course: Sailboarding.** 1-3 p.m. Saturdays. (University Union, 656-2461)
- 5 **Men's tennis: North Carolina.** 1 p.m., Sloan Tennis Center. (656-2101)

(Continued on back.)



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Newsletter

Vol. 26, No. 29

April 8, 1987

Information for the Faculty and Staff of Clemson University

Briefly...

East Bank area open to Fike members

The East Bank recreation area will be open to Fike Recreation Center members and their families May 18 through Labor Day (Sept. 7).

Hours of operation will be 11 a.m.-6 p.m. Monday through Friday, noon-6 p.m. Saturday and 1-6 p.m. Sunday.

Children under the age of 12 must be accompanied by a family member who is at least 18 years old.

Admission applications up 10 percent

Applications for admission to Clemson are running 10 percent above the number received this time last year. This is especially impressive, say Admissions Office officials, because there are fewer 12th-grade students in the state this year than there were last year.

Four students receive DuPont scholarships

Four Clemson engineering students have received DuPont-Conoco Fellowships for 1987. Only Carnegie-Mellon had as many recipients as Clemson this year.

James Cole of Belton and William Daniel Jr. of North Augusta are two of only 20 chemical engineering students nationally to receive the fellowships, while Patrick Freeman of Clemson and Douglas Bone of Florence are among the 21 electrical engineering recipients.

The fellowships help students pursue Ph.D.s in engineering.

Board hears status of budget and asbestos abatement plans

Clemson's Board of Trustees was told March 27 that the budget for fiscal year 1987-88 would be presented to the Board's Budget and Finance Committee April 15 and would likely include fee increases for students.

David Larson, vice president for business and finance, told the Board the University's state appropriation for 1987-88 is expected to be about 85 percent of the amount recommended by the Commission on Higher Education's formula for distributing funds to colleges and universities.

"The state appropriation requested for Clemson's educational and general budget was \$65.5 million, but it looks like the formula allocation will be about \$9 million less than that," Larson said.

If the Legislature approves the \$56.5 million in funding, it will be the third year Clemson has seen no increase in state support, Larson said. It also will be the third year since Clemson has received the full amount of funding recommended by the Commission on Higher Education.

Larson promised the trustees an austere budget that includes program reductions as well as fee increases.

"We're having a hard time meeting President Lennon's directive that any tuition increase would have to be less than last year's increase of 14 percent," he said.

"Obviously we can't recover the entire \$9-million reduction from tuition fees because it would mean an increase in the neighborhood of 40 percent to 45 percent."

Tuition climbed in 1986-87 from \$3,350 to \$3,910 per year for out-of-state students and from \$1,442 to \$1,682 for in-state students.

Trustees also heard an update on the University's asbestos abatement plan, which carries a price tag of at least \$38 million for asbestos removal and additional costs for construction and renovation.

A state appropriation of \$1 million will be used to begin the work on Barnette dormitory if questions about eligibility of dormitories for capital improvement funds can be resolved in Columbia.

Trustees heard reports from the colleges of Liberal Arts and Commerce and Industry and the Financial Aid and Admissions offices. All four reports carried the same message: More funding is needed for faculty salary enhancement, scholarships and research.

Lennon said the Research Investment Act, which is being proposed by Clemson, the University of South Carolina and the Medical University of South Carolina with the Commission on Higher Education's own "Cutting Edge" proposal, would address such needs through scholarship programs, endowed professorships, grants to improve instructional programs and matching funds for research grants.

The Board also approved awarding a \$2.48-million contract to Thamer Construction Inc. of Atlanta to construct a new wastewater treatment plant. The University has signed a consent order with the Department of Health and Environmental Control to upgrade the plant by October 1987.

Plant deficiencies include waste discharges exceeding the levels permitted by DHEC, poor recording and metering systems and a lack of emergency power.



Spring Week '87

The College of Architecture suspended classes March 23-27 for "Spring Week," a chance for faculty members and students to pursue new areas of study. Among the week's events was the construction of an American Indian tepee. Baldwin Parker Jr., father of marketing Assistant Professor Jacquetta McClung and grandson of the last Comanche chief, helped students build a tepee the way his ancestors did, from gathering the poles to participating in an Indian "dedication" ceremony. (Above) Parker helps a student select the right wood for the tepee's frame.

Annual picnic concert set for April 12

The Clemson University Symphonic Band will end its concert season with a picnic concert April 12 at 3 p.m. in the Outdoor Theater.

In addition to some light pieces, the band will play marches by John Philip Sousa, Kenneth J. Alford and J.C. Heed.

If the weather is bad, the band will play in Tillman Hall Auditorium at 4 p.m.

Players end season

The Clemson Players will present the group's last production of the season, Eugene O'Neill's "The Hairy Ape," April 14-18.

You can make reservations by calling 656-2476.

The play will be held each evening at 8 p.m. in Daniel Hall Auditorium, and a special matinee will be held April 16 at 3:30 p.m.

Tickets are \$2 for the public, \$1 for faculty and staff and free for students.

Women's studies professor to speak here April 16

Carol Pearson, author of "Educating the Majority: Improving Higher Education Programs for Women," will speak here April 16.

Her presentations will focus on the status, expectations, needs and concerns of women in graduate studies.

Pearson will lead an informal discussion at 4 p.m. in Strode Tower lounge and will give a formal lecture at 7:30 p.m. in Hardin Hall Auditorium.

Admission will be free.

Currently assistant to the president of Goucher College in Maryland

and president of Meristem Associates, Pearson has taught English and women's studies at the universities of Colorado, Maryland and North Carolina at Charlotte.

She also has worked at the American Council on Education Leadership Center in Washington, DC.

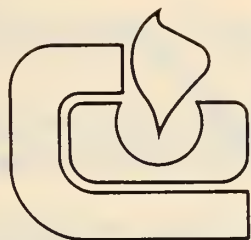
Her visit to Clemson is being sponsored by the Graduate Student Association, the CGS Task Force on Women and the Office of Human Resources.

The Clemson University Newsletter is published for the faculty and staff of Clemson University by the Division of University Relations.

University Newsletter Editor Deborah M. Slice
Student News Assistant Robert Parris
Acting Director, News Services ... Catherine Sams

We welcome your comments and suggestions. Call us at 656-4989 or write us at 103 Fike Center. **DEADLINE is April 14, noon, for April 22 Issue.**

APR 9 1987



Events

 INFORMATION FOR THE FACULTY AND STAFF OF CLEMSON UNIVERSITY

This calendar is prepared up to a month in advance. Please send in writing to the MASTER CALENDAR EDITOR, Trustee House, any campus event that should be listed. You also may call 656-4810 to check the UNIVERSITY MASTER CALENDAR for possible scheduling conflicts. (Call the number listed in each entry for more information.)

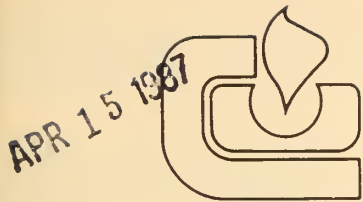
April 10-17

- | | |
|---------------------|--|
| Through
April 15 | Exhibit: "Women at Clemson." Cooper Library. (Women's Studies Committee, 656-3153) |
| 6-10 | Sculpture Show. Union Art Gallery. (University Union, 656-2461) |
| 9-11 | Southeastern Intercollegiate Livestock Evaluation and Selection Contests. All day, Bull Test Station, free. (Animal Science Department, 656-5159) |
| 9-11 | Film: "Crocodile Dundee." 7 and 9:15 p.m., Y-Theater, \$1.50. (University Union, 656-2461) |
| 9-16 | Short course: Body Massage. 7-9:30 p.m. Thursdays, \$15. (University Union, 656-2461) |
| 10 | Concert: The Meditations. 8:30 p.m., Outdoor Theater, free. (University Union, 656-2461) |
| 11 | Trip to the Biltmore House. (University Union, 656-2461) |
| 11-12 | Canoe trip. (University Union, 656-2461) |
| 12 | Clemson University Symphonic Band picnic concert. 3 p.m., Outdoor Theater, free. If the weather is bad, the concert will be held at 4 p.m. in Tillman Hall Auditorium. (Music Department, 656-3043) |
| 12 | Film: "Taps." 7 and 9:15 p.m., Y-Theater, \$1 for public and free for students. (University Union, 656-2461) |
| 13 | Meeting: Lanier Users Group. Noon, Golden Corral restaurant. |
| 13 | Meeting: Professional Secretaries International. 7 p.m., Calhoun Courts Commons Building. All secretaries welcome. (656-2249) |
| 13 | Film: "Kaspar Hauser." German with English subtitles. 3:30 p.m., 106 Daniel Hall, free. (Languages Department, 656-3393) |
| 13 | History Department graduate students' paper presentations. 3:30 p.m. (History Department, 656-3153) |
| 13 | Lecture: "Management and Construction In the '80s" by Jean Hails, president of Associated Builders and Contractors. 8 p.m., Lee Hall Auditorium, free. (Clemson Architectural Foundation, 656-3883) |

(Continued on back.)

- 13 **Film: "Bizarre, Bizarre."** 7:30 p.m., 313 Daniel Hall, free. (Languages Department, 656-3369)
- 13-17 **Exhibit: Master of Architecture Thesis Reviews.** 9 a.m.-4:30 p.m. weekdays and 2-5 p.m. Sundays, Rudolph E. Lee Gallery, free. (College of Architecture, 656-3081)
- 14 **Lecture: "Effects of Agricultural Practices on Groundwater Quality"** by Ralph Leonard, soil scientist with USDA-ARS. 2 p.m., 104 McAdams Hall, free. (Charles Carter Newman Chair in Natural Resources Engineering, 656-4084)
- 14 **Lecture: "Muna, Yucatan: A Mayan Village Enters the Mainstream"** by Paula Heusinkveld, assistant professor of languages. 3:30 p.m., 108 Strode Tower. (Languages Department, 656-3393)
- 14 **Lecture: Speaker from the National Institutes of Health.** (University Research, 656-2375)
- 14 **Film: "Silent Running."** 7 p.m., Y-Theater, \$1. (University Union, 656-2461)
- 14 **Film: "Kaspar Hauser."** 7:30 p.m., 106 Daniel Hall, free. (Languages Department, 656-3393)
- 14-18 **Clemson Players Production: "The Hairy Ape"** by Eugene O'Neill. 8 p.m.; Daniel Hall Auditorium; \$2 for the public, \$1 for faculty and staff, free for students. Special 3:30 p.m. matinee will be held April 16. (For reservations, call 656-2476)
- 15 **Panel discussion: "Grievance Procedures at Clemson University: Do They Work?"** 4 p.m., Daniel Hall Auditorium, free. (American Association of University Professors, 656-3968)
- 15 **Baseball: Georgia Tech.** 7 p.m., University baseball field. (656-2101)
- 15-16 **Conference: Filtration.** Ramada Inn. (Professional Development, 656-2200)
- 16 **Lecture: Speaker from the U.S. Fish and Wildlife Service.** (University Research, 656-2375)
- 16 **Lectures on the status, expectations, needs and concerns of women in graduate studies** by Carol Pearson of Maryland's Goucher College. Informal presentation: 4 p.m., Strode Tower lounge. Formal lecture: 7 p.m., Hardin Hall Auditorium. (Graduate School, 656-3195)
- 16 **Clemson University Chorus and Choral Ensembles concert.** 8 p.m., Tillman Hall Auditorium, free. (Music Department, 656-3043)
- 17 **Lecture: Speaker from the National Park Service.** (University Research, 656-2375)
- 17 **Baseball: Wake Forest.** 7 p.m., University baseball field. (656-2101)
- 17-19 **Trip to Myrtle Beach and Charleston.** (University Union, 656-2461)

Continuous YMCA-sponsored classes in women's, men's and youth's fitness, aerobics, exercise, Jazzercise, social dancing, Middle Eastern dance, swimming and aquacising, gymnastics, lifesaving, tennis, and after-school day-care and parents' night out programs. (656-2460)



Newsletter

Vol. 26, No. 30

April 15, 1987

Information for the Faculty and Staff of Clemson University

Briefly...

Fish and Wildlife Service executive to speak here

Edward Laroe, deputy director of research and development for the U.S. Fish and Wildlife Service, will speak here tomorrow (April 16) from 1:30-2:30 p.m. in 302 Rhodes Engineering Research Center.

For more information, call the Office of University Research, 656-2375.

Chorus sings tomorrow

The Clemson University Chorus will include both sacred and secular music in its performance tomorrow (April 16).

Sponsored by the music department, the concert will be held at 8 p.m. in Tillman Hall Auditorium. Admission will be free.

The 80-voice chorus will perform pieces by Bach, Haydn, Mozart, Bruckner and a Renaissance motet for triple chorus. Also on the program are several patriotic songs and folk songs, including "Danny Boy," "Dixie" and "Shenandoah."

"Dean" Cox retires this month

Walter Cox, President Emeritus and special assistant to President Max Lennon, is retiring April 30 after almost 50 years of service to the University.



Cox

At Lennon's request, however, Cox will continue working here on a part-time, contractual basis as the President's special assistant and as a consultant to the Office of Institutional Advancement, particularly with special fund-raising projects.

Cox began his Clemson career 52 years ago as a student. As a senior in 1939 he played on the Clemson

football team that defeated Boston College in the Cotton Bowl.

He graduated with a bachelor's degree in arts and sciences and was hired in 1940 as the University's assistant football coach, baseball coach and athletic business manager.

After 10 years with the athletic department, Cox became director of public relations and alumni affairs and assistant to the president.

In 1955, he began his 30-year post as vice president for student affairs and dean of students. During that time, Cox was awarded the Distinguished Alumni Award (1963) and the Clemson Medallion (1984) and was inducted into the Clemson University Athletic Hall of Fame (1984).

He served as University president from July 1985 to February 1986 and as acting vice president for institutional advancement from July 1986 to March 1987.

He was named special assistant to the president in March 1986 and President Emeritus in April 1986.

In recognition of his many years of dedicated service to the University, Cox received an honorary doctor of humanities degree during commencement exercises last May.

You can participate

News department provides editorial service

The News Services Department invites members of the faculty, staff and administration to participate in its editorial service.

Columns on timely issues are distributed from the department twice a month to both regional and national newspapers, including the Atlanta Constitution, St. Louis Dispatch,

Miami Herald, Boston Globe and New York Times.

"The expertise represented by our faculty and administrators deserves recognition, and we think this service is a good way to expose the public to the exciting ideas originating and flourishing at Clemson," said University news editor

Hollye Hatfield.

"Topics should be timely, appropriate and of general interest, and the columns should be carefully researched and accurate."

For more information about the editorial service or to volunteer to write a column, call Hatfield at 656-3862.

Departmental notes

Agricultural Economics and Rural Sociology

N.W. Childs (Former Grad Research Asst) and **M.D. Hammlg** (Assoc Prof) presented "An Examination of the Impact of Real Estate Exchange Rates on U.S. Exports of Agricultural Commodities" at the annual meeting of the Southwest Economics Society in Houston, Texas.

H.M. Harris Jr. (Prof) presented "Marketing Issues" at a national forum, Restoring Profitability and Competitiveness to U.S. Agriculture, in Washington, D.C. Harris also appeared on a national televideo conference, "Midcourse Corrections in Agricultural Policy," held at the University of Maryland.

Animal Science

D.L. Cross (Prof) received an \$8,700 gift from Coopers Animal Health of Kansas City, Kan., to support his research in the forage-cattle systems area. New Holland Corp. of Pennsylvania and Foundry and Steel of Anderson donated equipment to support forage harvesting and storage research.

Chemical Engineering

D.D. Edie (Prof) presented a seminar on melt spun carbon fibers to the research division of Amoco Performance Products in Parma, Ohio, in March.

W.P. Bell (Former Grad Stu) and Edie published "Measured Orientation and Internal Stress Distributions in Melt Spun Fibers" and "Calculated Internal Stress Distributions in Melt Spun Fibers" in *Journal of Applied Polymer Science*.

Edie received a \$5,000 equipment grant from the Virginia-Carolinas section of the Society of Plastics Engineers for the purchase of a liquid nitrogen temperature control system that will be used in polymer and composite research. This is the third consecutive year the society has supported Edie's research.

R.A. Sferazza (Grad Stu) and **C.H. Gooding** (Assoc Prof) presented "Determination of Sorption Selectivity by Liquid Chromatography" at the Second International Conference on Pervaporation Processes in the Chemical Industry in San Antonio, Texas, in March.

S.S. Melshelmer (Prof) presented a seminar on "Optimum Size and Location of Surge Capacity in Continuous Chemical

Processes" to the chemical engineering department at the University of Tennessee in Knoxville in March.

S.D. Roat (Former Stu) and **Melshelmer** published "Microcomputer-Aided Control Systems Design" in *Chemical Engineering Education*.

G.B. Pullen (Lect) received a \$3,000 equipment grant from the Western Carolinas section of the Instrument Society of America for use in modernizing instrumentation in the chemical engineering department's unit operations lab.

Chemistry

D.D. DesMarteau (Prof and Head) was an invited lecturer at Monsanto Agricultural Chemicals Co. in St. Louis in March. He presented "Recent Developments in Novel Fluorochemicals."

Computer Science

The following papers were presented at the 18th Southeastern International Conference on Combinatorics, Graph Theory and Computing in Boca Raton, Fla., in February:

- "A Computational and Graph Theoretic Approach to Nonassociative Algebras," written with **I.R. Hentzel** (Iowa State), by **D.J. Pokrass** (Asst Prof).

- "A Parallel Implementation for the Domination Number of a Grid Graph," written with **R.P. Pargas** (Asst Prof), by **H.G. Singh** (Grad Asst).

- "Linear Time Resource Allocation Algorithms for Trees," written with **S.M. Hedetniemi** (Assoc Prof) and **T.V. Wimer** (Vstg from Clarion Univ of Pennsylvania), by **S.T. Hedetniemi** (Prof).

- "A Linear-Time Algorithm for Finding the Maximum Cardinality of a Minimal Edge Cover on Partial K-Chordal Graphs," written with **S.T. Hedetniemi** and **H.A. Pellerin** (Lect), by **S.M. Hedetniemi**.

- "A Linear Algorithm for Computing the Knight's Covering Number of a $K \times N$

Chessboard," written with **S.T. Hedetniemi**, by **E.O. Hare** (Lect).

Dairy Science

J.A. Bertrand (Asst Prof) won third place for "Variation in the Composition of Stored Forage on Dairy Farms Using Computerized Concentrate Feeders" in the Young Scientist Paper Competition at the 1987 American Forage and Grassland Conference in Springfield, Ill.

F.E. Pardue (Prof) and **T.Q. Suddeth** (County Extension Agent) presented an invited paper, "Feeding Alfalfa to South Carolina Dairy Herds," at the seventh annual Kentucky Alfalfa Conference.

Elementary and Secondary Education

Six graduate assistants presented papers at the S.C. Council for Exceptional Children conference in Hilton Head in February:

- **T.B. Sorgenfrel** and **J.R. Wilson**: "Driver Education: A Way To Get Your Handicapped Student To Work"

- **K. Gambrell** and **J. Woodard**: "Involving Parents and Educators in the Education of the Handicapped Child."

- **L.J. Robinson** and **P.M. Edwards**: "Drug Education for the Special Needs Adolescent: A New Awareness."

- **M. Moore** (Asst Prof) presented: "Facilitating the Composing Process With Word Processors: An Exploratory Study" to the Florida Educational Research Association in November.

- "The Integration of Word Processing Technology Into the Developmental Writing Program" at the American Reading Forum in December.

- "The Acquisition of the Reading Process: An Ethnographic Study" at the Southwest conference of the International Reading Association in January.

The Clemson University Newsletter is published for the faculty and staff of Clemson University by the Division of University Relations.

University Newsletter Editor Deborah M. Slice
Student News Assistant Robert Parris
Acting Director, News Services ... Catherine Sams

We welcome your comments and suggestions. Call us at 656-4989 or write us at 103 Fike Center. **DEADLINE is April 21, noon, for April 29 issue.**

• "Composing With Word Processors in Developmental Writing Program: An Exploratory Study" to the Eastern Educational Research Association in February.

D. Fuhr (Assoc Prof), **J. Reynolds** (Anthrop College), **R. McWhirt** (The Citadel) and **B. Berry** (Univ of SC) were awarded a grant to evaluate the principal education program throughout the state.

English

D.L. Shealy (Vstg Asst Prof) published "Books Received" in Studies in the American Renaissance. Shealy also presented "The Dullest Little Town in Massachusetts": Louisa Alcott Looks at Concord and Its Authors" and chaired the Hawthorne session at the Philological Association of the Carolinas meeting in Greensboro, N.C., in March.

C. Johnston (Asst Prof) published "The Critical Reception of 'Of Time and the River'" in The Thomas Wolfe Review.

J. Idol (Prof) chaired a session on 19th century American women authors at the meeting of the Philological Association of the Carolinas. He also read "Fame and Fantasy in Wolfe" at the Eighth International Conference on the Fantastic in the Arts in Houston in March.

Entomology

E.P. Benson (Grad Research Asst) published "Haborage Preference by *Periplaneta americana* (L.) and *Periplaneta fuliginosa* (Serville) (Dictyoptera: Blattellidae) in a Home in Clemson, S.C." in Journal of Entomological Science.

D.G. Manley (Assoc Prof) published two papers in Journal of Entomological Science: "A New Species of *Photographus* (Hymenoptera: Multillidae) From Florida" and "Pink Bollworm Moth Dispersal in and Around Cotton, Sugar Beets and Alfalfa."

Economics

G.S. Sirmans (Assoc Prof) published "The Valuation of VA Assumable Loans" in The Appraisal Journal with C.F. Sirmans and S.D. Smith.

Forestry

F.A. Busch (Grad Stu) and **D.C. Jynn Jr.** (Prof) presented "Characteristics and Attitudes of Deer Hunting Successes in South Carolina and Mississippi" at the 10th annual meeting of the Southeast Deer Study Group in Gulf Shores, Ala., in February. They also published "Making Money From Wildlife" in

the proceedings of the Southeastern Forest Landowner Seminar, sponsored by the University of Georgia Cooperative Extension Service, in Atlanta.

Graduate School

D.B. Stone (Coordinator, Clemson at Greenville Tech) has been appointed to serve on the American Chemical Society's Committee on Education.

History

J.R. Wunder (Prof and Head) reviewed The Papers of Chief John Ross, Vol. I: 1807-1839 and The Papers of Chief John Ross, Vol. II: 1840-1866, edited by G.E. Moulton, in Journal of Southern History.

Industrial Education

C.H. Isbell (Assoc Prof) presented "Industrial Technology Education Programs in South Carolina" at the S.C. Office of Vocational Education Career Guidance seminar held at Dayco Corp. in Walterboro in March. He also presented "Career Development and Technology Awareness for the Elementary Classroom" at the International Technology Education Conference in Tulsa, Okla., in March.

G.G. Lovedahl (Assoc Prof) and Isbell received a grant from the Council on Technology Teacher Education to conduct a national study to determine the most successful recruiting techniques among colleges preparing technology education teachers.

Industrial Engineering

C.R. Lindenmeyer (Prof) published "IE Student Field Projects: Making Them Work for Everyone's Benefit" in Industrial Engineering.

Management

W.H. Hendrix (Prof), Hanby (DOD Schools) and **B.K. Zimmerman** (Boeing Co.) published "Correlates of Auditors' Intent to Remain With Present Organization" in Journal of Social Behavior and Personality.

Hendrix, R.P. Steel (Air Force Institute of Technology) and S.P. Balough (Sangamon State Univ) had "Confounding Effects of the Turnover Base Rate on Relations Between Time Lag and Turnover Outcomes" accepted for presentation at the National Academy of Management 1987 meeting.

Mathematical Sciences

J.A. Reneke (Prof), **R.E. Fennell** (Prof) and **R.B. Minton** (Former Grad Stu; Asst Prof at Roanoke College) published the book, Structured Hereditary Systems.

The following papers were presented at the 18th Southeastern International Conference on Combinatorics, Graph Theory and Computing at Florida Atlantic University in February:

- "Generalized Radon Theorems in Convex Structures" by **W. Hare** (Prof) and **G. Thompson** (Former Grad Stu).

- "Chromatic Polynomials of Chordal Graphs" by **N. Chandrasekharan** (Grad Stu) and **R. Laskar** (Prof).

- "Generalized Packings and Coverings of Graphs" by **G. Domke** (Grad Stu), **S.T. Hedetniemi** (Prof, Computer Science), Laskar and **R. Allan** (Former Grad Stu).

- "Maximal Clique-Separators of Chordal Graphs" by Chandrasekharan, Laskar and **S. Sitharama Iyengar** (LSU).

- "Some Results on the Achromatic Number of a Graph" by **R. Rowley** (Grad Stu), **C. Turner** (Former Grad Stu), **R. Jamison** (Prof), and Laskar.

Hare and Laskar chaired sessions of contributed papers at the same meeting.

J. Kenelly (Alum Prof):

- gave an invited address, "Aptitude and Achievement Testing in Mathematics," to the mathematics faculty and administration of DeKalb College in Clarkston, Ga., in February.

- gave a talk, "Calculus as a General Education Requirement and a Revolutionary New Role for the Calculator in Calculus," at the Conference on Calculus Reform in St. Petersburg, Fla., in February.

- published "Good Heavens, That's South Carolina Ahead in the Educational Reform Race" in the February issue of The Mathemate, the newsletter of the S.C. Council of Teachers of Mathematics.

- gave a series of workshops on the College Board's educational equality project to the mathematics faculty in Spartanburg School District #5 in February.

- published "Typing Equations and Such on the Mac" in SCCCE On-Line, the newsletter of the S.C. Council for Computers in Education.

- was one of 15 invited participants in the fourth annual conference on "Mathematics in the Year Before College,"

(Continued on next page.)

notes, cont.

sponsored by the University of Chicago's School Mathematics Project in March.

Mechanical Engineering

J.G. Brasseur (Asst Prof) presented "Spectral Energy Exchange Among Fourier Modes in Navier-Stokes Evolution" at the State University of New York at Stony Brook. He also presented "A Fluid Mechanical Analysis of Esophageal Transport" at the 13th Northeast Bioengineering Conference in Philadelphia in March.

Nursing

Q.K. Branum (Asst Prof) presented "Power and Powerlessness in Noncompliance" at the February conference, Just Health Care: The Interface of Ethics, Economics and Health Policy, sponsored by the University of Florida College of Nursing and the Center for Applied Philosophy and Ethics in the Professions.

Office of the Provost

L.S. Westra (Research Assoc/Asst Prof) presented:

- "Ethics in the Care of the Elderly" for the Joint Convention on Aging in Niagara Falls, N.Y., sponsored by the Ontario Association of Homes for Aged and the New York Association of Homes and Services for the Aging.

- "Shrader-Frechette, Risk Assessment and the Is-Ought Fallacy" for the Society for Social Philosophy at the Inter-American Congress of Philosophy in Mexico in 1985.

- "The Ontological Argument: Some Possible Implications" to the Society of Christian Philosophers.

- "On War and Innocence" at the International Conference of the Philosophers for the Prevention of Nuclear Omicide in St. Louis last May.

- "Heidegger, Aristotle and Aquinas: Truth in Existence" for the Canadian Philosophical Association at the meeting of the Learned Societies last May.

- "Freedom and the Greeks" for the Society for Ancient Greek Philosophy at Baruch College in New York City in October.

- "Causality of Plotinus' Concept of Freedom" for the Metaphysical Society of America at Fordham University in New York in March.

Westra published:

- "Knowing Un-Truth and the Truth of

Non-Being in Thomas Aquinas and Jacques Maritain" in Maritain: A Philosopher in the World.

- "Let It Be: Heidegger and the Future" in Environmental Ethics.

- "Love and Beauty in Plotinus and Ficino" in the proceedings of the Conference on Marsilio Ficino at the University of Toronto.

- "The Religious Dimension of the Question of Individual Immortality of the Thinking of William James" in Faith and Philosophy, the journal of the Society of Christian Philosophers.

- "Whose Loyal Agent? Towards an Ethic of Accounting" in Journal of Business Ethics.

- "On War and Innocence" in Dialogue, the journal of the Canadian Philosophical Association.

Parks, Recreation and Tourism Management

M. Uysal (Asst Prof) and **J.L. Crompton** (Texas A&M Univ) published "Deriving a Relative Price Index for Inclusion in International Tourism Demand Estimation Models Revisited" in Journal of Travel Research.

Physics and Astronomy

Three papers were presented at the American Physical Society meeting in New York in March:

- **K.V. Reddy** (Vstg Asst Prof) presented "Diffusion of Cerium Ion in Silver Chloride," written with **S. Mitra** (Former Grad Stu), **B. Popson** (Grad Stu) and **A.L. Laskar** (Prof).

- Laskar presented "Vacancy Diffusion of Sulfur Ion in Silver Bromide," written with Popson and Reddy.

- **J.R. Ray** (Prof) and **M.D. Kluge** (Grad Stu) presented "Amorphous Silicon Formation Using Molecular Dynamics."

Ray and L.L. Smalley (Univ of Alabama and NASA) published "Equation of State Spinning Fluids in the Einstein-Cartan Theory" in Physical Review.

Plant Pathology and Physiology

J.F. Murphy (Former Grad Asst), **O.W. Barnett** (Prof) and **W. Witcher** (Prof) published "Characterization of a Blackeye Cowpea Mosaic Virus Strain From South Carolina" in Plant Disease.

Religion

C.H. Lippy (Prof) presented "Another Look at the Christadelphians" at

the annual meeting of the S.C. Academy of Religion at Lander College in February and "Commitment and Cohesion Among the Christadelphians" at the academy's Southeastern region meeting in Atlanta in March.

Student Affairs

V. Howell (Director, Residential Life), **J. Martin** (Director, Conference Services), **G. Gaulin** (Assoc Director, Residential Services), **P. Howard** (Asst Director, Residential Life) and **K. Buchanan** (Asst Director, Residential Life) attended a meeting of the Southeastern Association of Housing Officers in Atlanta in February.

Howell and Howard presented "Star Search: Recognizing Your Brightest and Your Best," and Howell was elected to represent South Carolina on the SEAHO executive committee for 1987-88.

G. Campbell (Assoc Director, Residential Life) completed a one-year term as SEAHO state editor, and Howard began his second year as SEAHO newsletter editor.

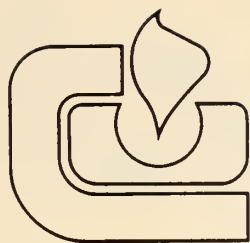
Employees recognized for service

Four employees have been named Business and Finance employees of the month for February by the division's vice president, David Larson.

They are Charles Barker Jr., environmental systems plant supervisor with the utilities department; Thomas Cain, vehicle operator with the grounds department; Marcella Jordan, administrative specialist with the financial management department; and Kenneth Rhodes, property and inventory control specialist with the service and support facility.

Larson also would like to thank the 17 employees who worked hard this winter to clear snow from the campus roads, walkways and parking lots.

The "snow crew" included Roscoe Benson, Paul Burrell, Charles Butts, Robert Callahan, William Carver, Elizabeth Christian, Anthony Coogle, Roger Dunson, James Green, David Greenlee, Adrienne Halfacre, Walte Jackson, Frank Nicholson, Bill Owens, Melody Parks, Edward Rich and Stephen Williams.



Events

INFORMATION FOR THE FACULTY AND STAFF OF CLEMSON UNIVERSITY

This calendar is prepared up to a month in advance. Please send in writing to the MASTER CALENDAR EDITOR, Trustee House, any campus event that should be listed. You also may call 656-4810 to check the UNIVERSITY MASTER CALENDAR for possible scheduling conflicts. (Call the number listed in each entry for more information.)

April 17-24

APR 15 1987

- 13-17 **Exhibit: Master of Architecture Thesis Reviews.** 9 a.m.-4:30 p.m. weekdays and 2-5 p.m. Sundays, Rudolph E. Lee Gallery, free. (College of Architecture, 656-3081)
- 14-18 **Clemson Players Production: "The Hairy Ape"** by Eugene O'Neill. 8 p.m.; Daniel Hall Auditorium; \$2 for the public, \$1 for faculty and staff, free for students. Special 3:30 p.m. matinee will be held April 16. (For reservations, call 656-2476)
- 17 **Baseball: Wake Forest.** 7 p.m., University baseball field. (656-2101)
- 17 **Lecture: "Fish and Wildlife Service Research Interests and Activities"** by the deputy director of research and development for the U.S. Fish and Wildlife Service. 1:30 p.m., 302 Rhodes Engineering Research Center. (University Research, 656-2375)
- 17 **Baseball: Wake Forest.** 7 p.m., University baseball field. (656-2101)
- 18-19 **Baseball: Duke.** 2 p.m., University baseball field. (656-2101)
- 19 **Film: "The Graduate."** 7 and 9:15 p.m., Y-Theater, \$1. (University Union, 656-2461)
- 20 **Film: "Katz Und Maus."** 3:30 p.m., 106 Daniel Hall, free. (Liberal Arts, 656-3263)
- 20 **Film: "Alambrista."** 7:30 p.m., 313 Daniel Hall. (Languages Department, 656-3369)
- 20 **Lecture: "The American Literary Community and Literacy"** by Shirley Heath, professor of English and linguistics at Stanford University. 7:30 p.m., Lee Hall Auditorium, free. (Campbell Committee, 656-3151)
- 20-21 **Baseball: South Carolina.** 7 p.m., University baseball field. (656-2101)
- 21 **Recital: applied music students.** 7:30 p.m., Daniel Hall Auditorium, free. (Music Department, 656-3043)
- 21 **Film: "Plan 9 From Outer Space."** 7 and 9:15 p.m., Y-Theater, \$1. (University Union, 656-2461)
- 21-23 **Conference: Spinning Systems.** (Professional Development, 656-2200)
- 23 **Concert: Clemson University Jazz Ensemble.** 8 p.m., Tillman Hall Auditorium, free. (Music Department, 656-3043)
- 23-25 **Film: "Ferris Bueller's Day Off."** 7 and 9:15 p.m., Y-Theater, \$1.50. (University Union, 656-2461)

Newsletter

Vol. 26, No. 31

April 22, 1987

Information for the Faculty and Staff of Clemson University

APR 22 1987

Forester wins top non-academic award



Shelburne

Staff member Vic Shelburne was named winner of the 1987 Algernon Sydney Sullivan Award during the University's Honors and Awards Day celebration April 4.

The award, the top non-academic honor bestowed by the University each year, also went to two senior students.

A forester in the College of Forest and Recreation Resources, Shelburne received a Sullivan medal for his work in Clemson as a Boy Scout leader.

While working toward his doctorate and serving as an administrative

assistant to the head of the forestry department, he built Clemson's Troop 235 from a dwindling program of 16 scouts to a thriving troop of 50 in seven years.

"He is an excellent role model, devoting countless hours to planning, organizing and conducting a quality program of Scouting," said Robert Williamson, professor of agricultural engineering and assistant scoutmaster for Shelburne's troop.

"Under Vic's leadership, Troop 235 became one of the strongest and most respected troops in the Blue Ridge Council."

Agriculture Department officer to speak today

The U.S. Department of Agriculture's assistant secretary for government and public affairs will speak here today (April 22) on "The Challenges and Opportunities in Agriculture."

Wilmer Mizell will lecture at 3:30 p.m. in Room 100 of McAdams Hall, and a reception will be held in the Nursing building lobby afterwards. The public is invited to both, free of charge.

Mizell was a North Carolina congressman for six years and the Commerce Department's assistant secretary for economic development for two before taking his current post in 1982.

He also pitched for two major league teams, the St. Louis Cardinals and the Pittsburgh Pirates, during his 14 years in professional baseball.

While on campus, Mizell also will talk to Associate Professor Mike Hammig's agricultural policy class.

Mizell's visit is sponsored by the agricultural economics and rural sociology department and the Strom Thurmond Institute.



NEW HOME FOR AG COMMUNICATIONS

Faculty and staff members (left) gathered April 7 at the agricultural communications department's open house. Ag news and publications staff members have moved from the Trustee House and Fike to the P&A Building to be near their clients' offices. The department's new office is on the first floor, A-101.

Fourteen named outstanding employees

Fourteen staff members in the Division of Agriculture and Natural Resources have been named outstanding classified employees for 1986-87.

Nominated by individual departments, the award winners were selected by a peer committee.

The fourteen are:

Administration: Paul Gable, director of Extension management services.

Maintenance/Service: James

Coleman, trades supervisor, 4-H department.

Professional: Miriam Roman, program assistant, Sumter County Extension Service office; Donnie King, agricultural science associate, 4-H; and Victor Shelburne, forester, forestry.

Technical: James E. Arnold, agricultural science associate, horticulture; Sherry Holder, illustrator, agricultural engineering; Benjamin Morton, agricultural science

associate, agronomy and soils; and Ira Austin Swift, programmer analyst, entomology.

Secretarial/Clerical Support: Dorothy Burchfield, administrative specialist, agricultural engineering; Louise Elliott, accounting clerk, agronomy and soils; Mary Harvey, executive support specialist, 4-H; Dianna Haynes, administrative specialist, entomology; and Gail Jameson, staff assistant, agronomy and soils.

"Salute to Walter"

A University-wide ceremony to honor Walter Cox, who is retiring after almost 50 years of service to Clemson, will be held Sept. 4.

The Newsletter will report details of the event when they are finalized.

Personnel, area companies begin association

Staff members from the Personnel and Human Resources offices met yesterday (April 21) with personnel officers from private businesses in the area for what Juliette Dais hopes will be one of many productive workshops to come.

Dais, classification and compensation manager in the Personnel Office, said the office is setting up a professional association to include members from the University and from upstate businesses and industries.

"We'll be able to compare our personnel benefits with those of neighboring businesses," she said.

"By getting more involved in the community, the Personnel Office will be able to judge better how our employees' salaries and benefits should compare to those in other organizations."

AAUP reports

S.C. faculty salaries are average

The nation's college professors enjoyed their biggest pay increases in more than 15 years as salaries climbed 5.9 percent this school year, the American Association of University Professors announced this month.

The pay increases put the average salary for a full professor at all 3,300 U.S. colleges and universities at \$45,520. Associate professors are earning \$33,820 on the average this year, while assistant professors are getting \$27,920 and instructors \$21,330.

South Carolina and North Carolina ranked in the middle of the 50 states, with an average salary of \$50,540.

The average nine-month salary for Clemson professors is \$45,391; associate professors, \$34,068; assistant professors, \$29,638. (Figures are from the 1986-87 Faculty Salary Report released by the Provost's Office in December.)

The top salaries were at universi-

ties in the Pacific states of Alaska, California, Oregon, Washington and Hawaii (\$56,610); the Middle Atlantic states of New York, New Jersey and Pennsylvania (\$55,680) and New England (\$55,700).

The lowest average salaries for full professors were at the Ph.D.-granting universities in the Mountain states of Arizona, Colorado, Idaho, Montana, Nevada, New Mexico, Utah and Wyoming (\$44,020); the Central states of Iowa, Kansas, Minnesota, Missouri, Nebraska and the Dakotas (\$44,380); and the Southern states of Alabama, Mississippi, Kentucky and Tennessee (\$44,500).

In the middle were the Southern states of Arkansas, Louisiana, Oklahoma and Texas (\$46,120); Illinois, Indiana, Michigan, Ohio and Wisconsin (\$49,580); and Delaware, District of Columbia, Maryland, Virginia, West Virginia, Georgia, Florida and the Carolinas (\$50,540).

(Source: Associated Press)

The Clemson University Newsletter is published for the faculty and staff of Clemson University by the Division of University Relations.

University Newsletter Editor Deborah M. Slice
Student News Assistant Robert Parris
Acting Director, News Services ... Catherine Sams

We welcome your comments and suggestions. Call us at 656-4989 or write us at 103 Fike Center. **DEADLINE is April 28, noon, for May 6 issue.**

University celebrates Secretaries Week

Clemson's chapter of Professional Secretaries International is celebrating Professional Secretaries Week this week in several ways.

Nancy Burgen, clerk receptionist in Calhoun Courts for the Housing Office, was named secretary of the year by the association and was honored during a special luncheon yesterday (April 21).

An active member of PSI, Burgen is adviser to Gamma Sigma Sigma service sorority and has been involved with numerous community

and campus service projects.

"We're very fortunate to have Nancy in our group," said Linda Brady, president of PSI.

"She's helped us organize our monthly meetings and special projects, and she's been instrumental in developing our new Certified Professional Secretary review program."

In addition to selecting a secretary of the year, PSI sent two University employees to the "Secretary Speak-Out" conference in Atlanta this week.

Susan Perry from the Personnel Office and Lois Driver from the College of Liberal Arts participated in seminars on secretarial potential, professionalism and productivity.

Brady and Helen Arterburn, a secretary in the accounting department, are talking this week to students enrolled in a secretarial class at Daniel High School.

PSI also is presenting a \$200 scholarship for the first time to a student studying secretarial science at Tri-County Technical College.

- There are about 4.1 million secretaries in the United States.
- 1.6 percent of all secretaries are male.
- The U.S. Bureau of Labor Statistics predicts a 29-percent increase in the number of secretarial jobs from 1982 to 1995, despite the spread of office

Facts and Figures

automation.

- Monday and Friday are the most stressful days of the week for secretaries, according to a 1986 Professional Secretaries International/Panasonic study.

- A secretary's greatest stress is most likely to occur between 4 p.m. and 6 p.m.
- Forty-one percent of the secretaries interviewed for the PSI/Panasonic study cited a lack of communication from their supervisors as one of the major causes of stress.

Organization serves secretaries' needs

Professional Secretaries International is especially active during Professional Secretaries Week, but the group sponsors many other programs for year-round benefit:

- Chapter members keep each other informed about job opportunities.
- PSI serves as a clearinghouse for information on the changing secretarial field, including new

technology that will help make the secretary's job easier.

- Members travel to state, district and international conventions.
- The Clemson chapter of Professional Secretaries International meets once a month to listen to guest speakers and discuss special projects.
- PSI will offer in the fall the Certified Professional Secretary exam

review course.

- PSI and Tri-County Technical College offer seminars on improving professionalism and secretarial skills.
- Members are eligible to receive Continuing Education Units by participating in many PSI-sponsored programs.

For more information about PSI, call Linda Brady at 656-2249 or Helen Arterburn at 656-3244.

Visitors meet here this week

The University's Board of Visitors will be on the Clemson campus today and tomorrow (April 22 and 23).

On the agenda are presentations by Gary Ransdell, vice president for institutional advancement, on "Building Local Support" and by David Larson, vice president for

business and finance, on "Review of the University Budgeting Process."

The Board also will meet with student government leaders, tour the new Hunter Chemistry Laboratory and hold a business meeting.

The Board meets on campus for a general session twice each year.

Literacy lecture tonight

Shirley Heath, professor of linguistics and English at Stanford University, will talk about "The American Literary Community and Literacy" tonight (April 22) at 7:30 p.m. in Daniel Hall Auditorium.

Sponsored by the Campbell Committee, the lecture is free and open to the public.

Departmental notes

Chemical Engineering

R.W. Rice (Assoc Prof) and **C.C. Chien** (Former Grad Stu) published "Simulation of Supported Iridium Catalyst Sintering and Redispersion" in Journal of Catalysis.

C.H. Gooding (Assoc Prof) presented "Modeling Pervaporative Transport of Ethanol-Water Through a Polyamide Membrane," written with **R. Sferrazza** (Grad Stu) and **R. Escobosa** (Former Grad Stu), at the AIChE national meeting in Houston, Texas, in March.

Civil Engineering

S.C. Anand (Prof) served on a panel to review research initiation proposals submitted to the Critical Engineering Systems Division of the National Science Foundation in Washington, D.C., in March.

English

R. Rollin (Lemon Prof) has been selected as one of two vice presidents of the American Culture Association.

Entomology

M.R. Strand (Asst Prof) published:

- "Correlating Pathological Symptoms in *Heliothis virescens* Eggs With Development of the Parasitoid *Telenomus heliothides*," with S.M. Meola and S.B. Vinson (Texas A&M Univ), in Journal of Insect Physiology.

- "Physiological Interactions Between Parasitoids and Hosts and Their Influence on Reproductive Strategies" in Insect Parasitoids.

- "Nesting Behavior, Nest Architecture, and Use of Dufour's Gland Lipids in Nest Provisioning by *Megachile integra* and *M. m. mendica* (Hymenoptera: Megachilidae)," with H.J. Williams and G.W. Elven (Texas A&M Univ), in Journal of the Kansas Entomological Society.

Strand also presented an invited seminar, "The Developmental Biology of Endoparasitic Hymenoptera," to the University of Wisconsin's entomology department.

History

E. Carney (Asst Prof) published "City-Founding in the Aeneid" in Collection Latomus.

Industrial Engineering

D.L. Kimbler (Assoc Prof)

presented "A Survey of Current Methods for the Elimination of Initialization Bias in Digital Simulation" at the 20th annual Simulation Symposium in Tampa, Fla., in March.

B.A. Watford (Asst Prof)

presented a report on funded research at the Minority Principal Investigators meeting at the National Science Foundation in Washington, D.C., in March. The report was titled "Applications of Artificial Intelligence to Automated Process Planning."

Languages

H.M. Riley (Prof, German) published "Analyzing Freud: His Poem, 'Heil,' and Its Cultural and Scientific Metaphor of Turn-of-the-Century Vienna" in Monatshefte.

Management

J.K. Butler Jr. (Assoc Prof)

presented "A Structured Framework for Applying Conceptual Models to Problem Analysis: Hardening Up" at the national meeting of the Association for Business Simulation and Experiential Learning. The paper was published in the proceedings.

M.J. Stahl (Prof and Head) and **Z.Z. Wei** (Grad Stu) had "Publication in the Leading Management Journals as Measures of Institutional Research Productivity" accepted for presentation at the National Academy of Management meeting in New Orleans in August.

Mathematical Sciences

J. Kenelly (Alum Prof) presented "AP in South Carolina" at the Southeastern regional assembly of the College Board in Charleston.

The following papers were presented at the 11th annual meeting of the Southeastern Atlantic section of the Society for Industrial and Applied Mathematics in Athens, Ga., in March:

- "Parabolic Ray Theory With Boundaries" by **J.R. Brannan** (Assoc Prof).

- "A Shortest Path Algorithm in Robotics and Its Implementation on the FPS-20 Hypercube" by **D.D. Warner** (Prof) and **J.R. Thornton** (Grad Stu).

- "A Discrete Search Game" by **W.H. Ruckle** (Prof).

- "Conditions Yielding Weak Controllability for a Class of Linear Hereditary Systems" by **J.A. Reneke** (Prof) and **A.K. Bose** (Assoc Prof).

- "A Backward Error Analysis for a Pole Assignment Algorithm" by **W.F. Moss** (Assoc Prof) and **C.L. Cox** (Asst Prof).

Mechanical Engineering

E.H. Bishop (Prof) presented "Heat Transfer by Natural Convection Between Isothermal Horizontal Concentric Cylinders: The Expansion Number Effect" at the ASME/JSME Thermal Engineering Conference in Honolulu in March.

C.E.G. Przirembel (Prof and Head) was an invited participant at the Engineering Societies' Government Affairs Conference in Washington, D.C., in March. The conference was an inter-society effort to increase visibility of public policy concerns of engineers and to provide the engineering community an opportunity to hear and meet government policy makers.

J.G. Brasseur (Asst Prof) presented "A Fluid Mechanical Analysis of Esophageal Transport" at the Bioengineering Conference in Philadelphia in March.

Nursing

S.W. Thompson (Asst Prof) published the chapter, "Immune Response and Alterations," in Nursing Management of Children.

Parks, Recreation and Tourism Management

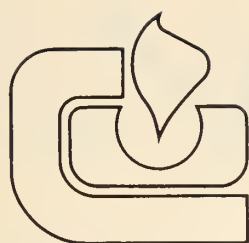
R. Howell (Assoc Prof) and **M. Uysal** (Asst Prof) published "Tourism Education for Developing Countries" in Tourism Management.

Departmental notes are published in the Newsletter when space and time allow, usually twice each month.

To submit information to be included in departmental notes,

- faculty members must fill out special forms provided by the Undergraduate Studies Office. Each item must be approved by the appropriate department head and dean and the vice provost for undergraduate studies.

- staff members must submit items for publication to the Commission on Classified Staff Affairs, Box 2121, for approval.



Events

INFORMATION FOR THE FACULTY AND STAFF OF CLEMSON UNIVERSITY

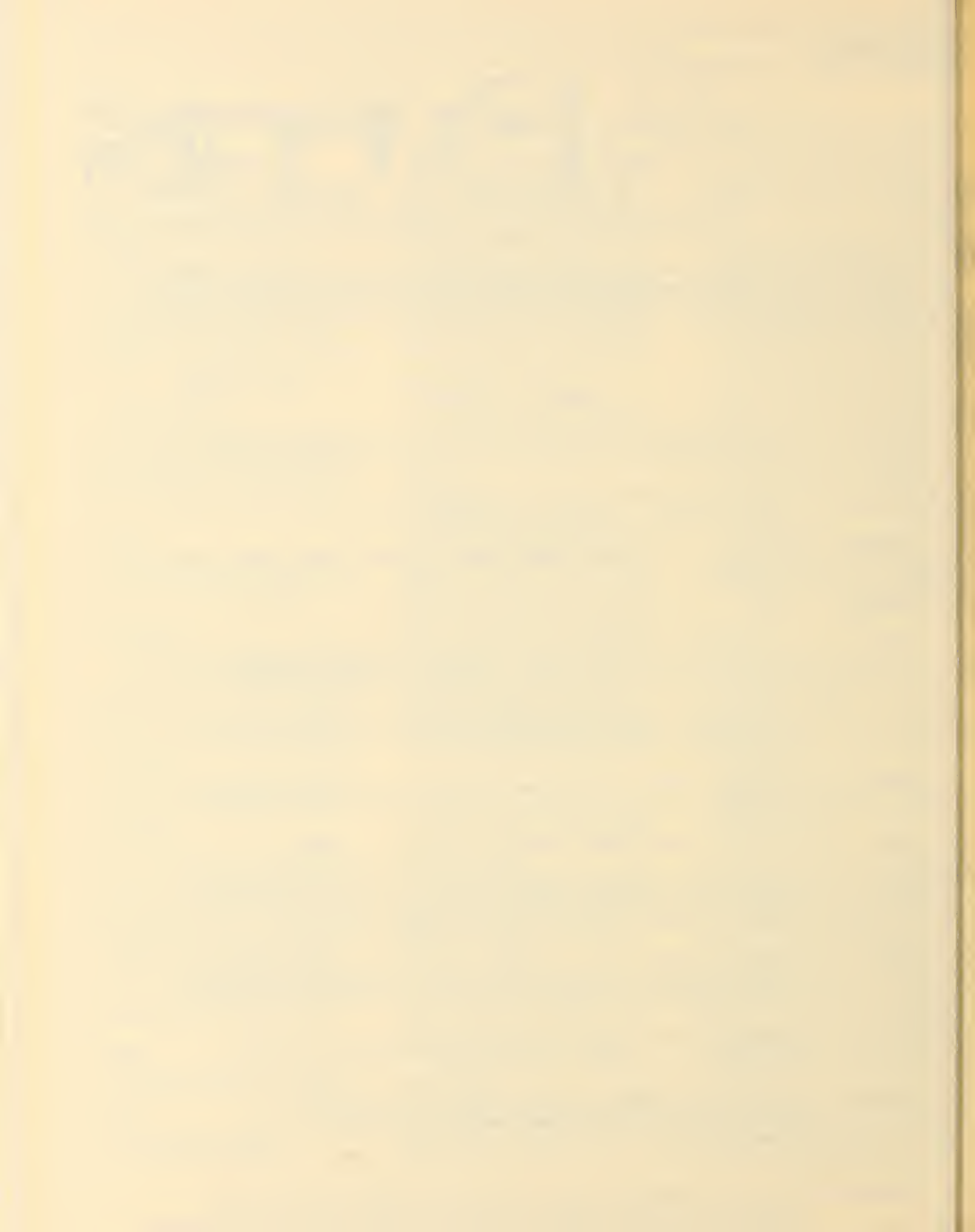
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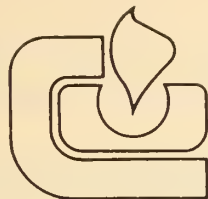
April 24 - May 1

APR 24 1987

- 23-25 **Film: "Ferris Bueller's Day Off."** 7 and 9:15 p.m., Y-Theater, \$1.50. (University Union, 656-2461)
- 26 **Film: "The Mr. Bill and Friends Show."** 7 and 9:15 p.m., Y-Theater, free for students and \$1 for the public. (University Union, 656-2461)
- 26-May 8 **Art show:** works from Carole Tinsley's art studio. Union Art Gallery. (University Union, 656-2461)
- 27-May 2 Exams.
- 27-May 15 **Student Honors Exhibition.** 9 a.m.-4:30 p.m. weekdays and 2-5 p.m. Sundays, Rudolph E. Lee Gallery in Lee Hall, free. (College of Architecture, 656-3081)
- 27 **Teleconference: Revitalization of Small Towns and Economic Development.** 7-8:30 p.m., Clemson House Blue Room, free. (State Development Board and Strom Thurmond Institute, 656-4700)
- 28-29 **Conference: Natural and Manmade Fiber Forum.** (Professional Development, 656-2200)
- 28-30 **Workshop: Color Science.** (Professional Development, 656-2200)
- 29 **Campus visit by Scott Pyron, regional director for the Research Corporation of Port Washington, N.Y.** 10 a.m.-1:30 p.m., E-102 Martin Hall. Call the Office of University Research, 656-2375, to schedule an appointment to talk with Dr. Pyron.
- 30 **Hunter Chemistry Laboratory dedication and symposium.** Open house in the morning, dedication ceremony at 1:30 p.m. in the building's auditorium, symposium at 2:30 p.m. (656-3065)
- 30 **Planetarium show.** 7:30 p.m., 112 Kinard Hall, free. (Physics and Astronomy, 656-3416)
- 30-May 1 **Seminar: Fundamentals of Artificial Intelligence and Design of Expert-Based and Knowledge-Based Systems.** (Continuing Engineering Education, 656-2200)

Continuous YMCA-sponsored classes in women's, men's and youth's fitness, aerobics, exercise, Jazzercise, social dancing, Middle Eastern dance, swimming and aquacizing, gymnastics, lifesaving, tennis and after-school day-care and parents' night out programs. (656-2460)





Newsletter

Vol. 26, No. 32

APR 29 1987 April 29, 1987

Information for the Faculty and Staff of Clemson University

Chemistry dedication set for tomorrow

The University will celebrate the opening of the new Howard L. Hunter Chemistry Laboratory tomorrow (April 30) with an open house, dedication ceremony and technical seminar.

Tours and an open house will be held from 9:30 a.m. to 11:30 a.m., followed by the formal dedication at 2:30 p.m. in the chemistry auditorium.

Scheduled to speak during the ceremony are David Maxwell, provost and vice president for academic affairs; Henry Vogel, dean of the College of Sciences; President Max Mendenhall; Louis Batson, chairman of the Board of Trustees; and Darryl DesMarteau, head of the chemistry department.

The technical symposium will begin at 2:25 p.m. in the auditorium and will feature three nationally recognized figures in chemistry.

Presentations will be given by Alex MacLachlan, senior vice president of technology at Du Pont; Sir

Derrick Barton, Nobel Prize winner and chemistry professor at Texas A&M; and Fred Basolo, Morrison Professor of Chemistry at Northwestern University and former president of the American Chemical Society.

MacLachlan will speak about "Today's Challenges to Chemistry," Barton, "The Invention of Chemical Reactions" at 3:30 p.m.; and Basolo, "Frontiers in Inorganic Chemistry" at 4:30 p.m.

University faculty and staff members are welcome to attend all the events.

Hunter Laboratory is named for the late Howard L. Hunter, former dean of Clemson's College of Arts and Sciences.

Hunter supported the movement to establish the Bachelor of Arts and Master of Arts degree programs at Clemson and also was influential in strengthening Clemson's

commitment to scientific research.

Hunter endowed the Eaton-Freeman Award for an outstanding student pianist, and soon after his death in 1975 his wife established the Hunter Award, given annually to a student pianist who accompanies University choral organizations.



Hunter

Clemson gets contract for detector design

A new, state-of-the-art, fire-detection system is being developed at Clemson in cooperation with the Research Equipment Corp. of Charleston.

In a type of partnership called for in the University's Second Century research plan, REC has awarded the development contract to the College of Engineering to design the system's electronic circuitry and computer interfacing.

The result will be a device called the Monitor, which will be able to detect a fire before it blazes.

Insurance open enrollment scheduled for May

A number of changes in the state health insurance plans will take place July 1, including a large rate increase.

"The state plan (Blue Cross and Blue Shield) will cost about 16 percent more beginning in July, and the optional HMO plans will be going up as much as 50 percent," said Ron Herrin, director of payroll and employee benefits programs.

Open enrollment will be held during May, but will be an opportunity for University employees to change only from one insurance carrier to another, not from one level of coverage to another, Herrin said.

The changes employees make in

May will be effective a year and a half, through January 1989.

Herrin's office plans to explain the changes to University employees during four meetings this week.

Employees can meet with payroll and employee benefits staff members and representatives from the insurance carriers today or tomorrow (April 29 or 30) at either 9 a.m. or 1:15 p.m. each day in the Senate Chambers.

Herrin said all the details about the changes have not been confirmed, but he should be able to tell employees more the first week of May.

For more information about the meetings, call 656-2000.

McClure to be honored at commencement

Gov. Carroll Campbell will deliver the commencement address here May 8, and honorary degrees will be presented to Harlan McClure, Clemson's first dean of architecture, and to John Fulp, chairman of the board of directors of the Abney Foundation.

About 1,500 students are expected to graduate during the 11 a.m. ceremonies in Littlejohn Coliseum.

McClure joined the Clemson staff in 1955 as professor and head of the architecture faculty. Three years after his arrival, an independent, accredited School of Architecture was established with McClure as its dean.

He retired as dean in 1984 and continued to teach in the graduate program. He plans to retire from the University this summer.

During his 25 years as dean, McClure built Clemson's fledgling architecture program into a curriculum with national stature. He established the Charles E. Daniel Center for Building Research and Urban Study in Genoa, Italy, a program that has brought Clemson international recognition. He also led the establishment of the statewide Clemson Architectural Foundation, which provides funds for special programs.

Because of his 32 years of service to Clemson and the state, McClure is

called the father of South Carolina architects.

John Fulp Jr. of Anderson is chairman of the board of directors of the prestigious Abney Foundation, which has supported a number of institutions of higher education, including Clemson and Anderson College.

Since 1974 the foundation has given Clemson a total of \$2 million, including a \$1-million gift to endow the Abney Chair of Free Enterprise in the College of Commerce and Industry.

Fulp is president of the Fulp Foundation, owner and director of Diamond F Construction and director of the Big "O" car dealerships.

He also has served as president and director of Vanguard Industries

Inc. and of Abney Mills and its subsidiaries.



McClure

Simpler W-4 forms available

The Payroll Office now has the revised W-4A forms available for those University employees who wish to use them.

Developed in response to widespread criticism of the 1987 W-4 form issued earlier this year, the new form is shorter with considerably simplified instructions, said Ron Herrin, director of payroll and employee benefit programs.

"However, the new form does take a generally more conservative approach to allowances and deductions," Herrin said, "and in some cases will result in few total allowances and higher withholding than the original W-4 form."

Since either form is acceptable, you don't have to fill out the new W-4A form if you already have

completed the original one.

Because of the sweeping federal tax changes enacted last year, all employees subject to the U.S. income tax must complete a new form. It is intended to help the employees claim the proper number of allowances so that their employers withhold the correct amount.

Herrin stresses the importance of filing a new 1987 form with his office by October 30.

"Everyone must complete one of the two versions of the W-4 forms by the end of October, and the longer you wait, the more income tax you'll owe at the end of the year," he said.

Herrin said he and his staff will be happy to help employees complete a new form. Call 656-2000 or go by the office in G13 Sikes Hall.

Four employees recognized

Four employees have been named Business and Finance employees of the month for March by the division's vice president, David Larson.

They are Harold Crane, master craftsman with the Physical Plant; Ray Vickery, electrician, Physical Plant; Frances Holliday, administrative specialist, Personnel Administration; and Rhonda Roper, administrative assistant, Office of the Vice President for Business and Finance.

The Clemson University Newsletter is published for the faculty and staff of Clemson University by the Division of University Relations.

University Newsletter Editor Deborah M. Slice
Acting Director, News Services ... Catherine Sams

We welcome your comments and suggestions. Call us at 656-4989 or write us at 103 Fike Center. **DEADLINE is May 5, noon, for May 15 issue.**

New vice president reorganizes division

Gary Ransdell, new vice president for institutional advancement, has announced an internal reorganization of the division which, he says, "positions us to move forward aggressively in our private fund-raising efforts and our capital campaign planning and implementation."

"With the academic initiatives the deans and faculty have identified, and with the state funding situation the way it is, private fund raising has never been more important to Clemson University," Ransdell said. "We want to implement the policies and structure which will better position us to meet that challenge."

He said the new organization "eliminates some of the redundancy in our advancement offices and more clearly defines the specific role of each office. It will allow each advancement unit to have a more distinct mission, each with a vital role to play."

Ransdell said the reorganization largely involves existing positions.

"I was impressed with the number of outstanding people already on board at Clemson. The primary need, with the personnel we now have, is to realign the structure to improve efficiency and accountability and to more effectively evaluate our programs."

Ransdell said only two new exempt positions will be added, a director of major gifts and a capital campaign manager, both of which will be funded in the coming year from the campaign budget.

He announced the changes at a division staff meeting April 16.

He recognized H. Betts Wilson, who is retiring June 30, for more than 40 years of service to Clemson University and said recruiting will begin soon for an assistant vice president for development services to oversee donor research, donor relations and all administrative and accounting services for the division.

The three other units in Institutional Advancement, each headed by an associate vice president, are alumni relations (George Moore), development (Jeff McNeill) and

university relations (Harry Durham).

Ransdell also thanked Walter Cox, President Emeritus and former acting vice president for institutional advancement, for his help during the transition and for his continued commitment to Clemson.

Cox will retire April 30 but will continue to serve the University in a part-time capacity as special adviser to the President and to Institutional Advancement.

Ransdell announced several other changes:

- Ann Smith's responsibilities as director of the Loyalty Fund have been increased to include all activities related to annual gifts up to \$10,000.

- Christy Klugh has been named assistant director of the Loyalty Fund. She will supervise the student "phonathon" and focus her efforts on annual gifts up to \$99.

- The position of gift club coordinator, formerly held by Paula Peckham, will be renamed director of donor relations and will be filled immediately.

- Mark Eisengrein has been named director of alumni programming, with responsibility for providing assistance to all alumni reunion and class activities, continuing education, student relations, young alumni programs, college- and organization-based constituency groups (such as the alumni band) and auxiliary services (merchandising, tours,

insurance, etc.).

- Bonnie Bennett will be director of special events, with responsibility for planning events such as Parents Weekend, Clemson Medallion dinners, homecoming and selected Centennial events and other key activities. Bennett and a catering and facilities manager, now being recruited for, will form the special events unit.

- Brian O'Rourke has been named director of alumni field activities, which involves all Clemson Clubs, off-campus alumni continuing education, athletic-related activities and the professional constituency groups such as the alumni physicians, dentists and attorneys organizations.

- Caroline Busch has been named director of research, with responsibility for setting up a system of donor research on corporations, foundations and individuals and maintaining all constituent and donor files.

- Margaret Pridgen has been named assistant vice president for university relations and director of constituent communications. In that capacity, she will serve as editor of Clemson World and Clemson University News and assist in campaign communications.

Recruiting has begun to fill her former position as director of news services on a permanent basis. Catherine Sams, university science editor, is currently acting director.

Classified Information

Classified Information, a question and answer column researched and written by Commission on Classified Staff Affairs members, will be published periodically in the Newsletter. The questions reflect the comments staff members wrote on the interest surveys distributed by the Staff Commission last fall, and the answers are written by commission members who carefully research each one with appropriate administrators.

Is an optional retirement program being considered for classified employees?

A proposal for an optional retirement program has been submitted to this year's Legislature for consideration, but it would allow only certain groups of people (new faculty members, not classified staff) the option of participating in a retirement program other than the S.C. Retirement System. At this time, nothing is being planned for classified staff.

Expert offers advice on health and travel

Television commercials warn travelers not to leave home without the appropriate charge card and travelers checks, yet experts say a vacation is more likely to be ruined because of ill health than money problems.

Vacationers should adopt the Boy Scout motto of "be prepared" when it comes to planning for a safe and healthy vacation, says Becky Campbell, assistant professor of nursing at Clemson.

"Things like blistered feet, upset stomachs, motion sickness or other ailments that can spoil a long-awaited trip can be avoided with a little advance preparation," she said.

Start with packing. Be sure to include a first-aid kit that contains over-the-counter medicine for headaches and acid indigestion, bandages, a good supply of any prescription drugs you must take plus the prescriptions (if refillable), an antiseptic for minor scrapes and cuts, and something to treat sunburn and insect bites.

Remember any special needs of infants and young children, such as creams for diaper rash or a thermometer.

Next, plan to travel in comfort. No matter what mode of transportation is taken, a certain amount of sitting in one position for an extended period of time is inevitable.

"A frequent problem associated with the confinements of travel is swelling of the feet and legs," Campbell said.

"Pressure on the area behind the knee from sitting or crossing the legs can obstruct blood flow from the lower legs. The result is that fluid tends to pool in the legs."

To make things worse, travelers tend to eat salty snacks and fast foods such as pizzas and hamburgers and to drink soft drinks high in sodium. The sodium causes the body to retain fluids, which worsens the swelling. Better choices for hungry travelers are fruit, raisins and water.

"Blood return to the heart can be

helped through muscle activity, such as contracting the legs or raising the feet occasionally, and by wearing elastic or support stockings," she said.

"If you're going on a long car trip, allow time for frequent stops and get out of the car every time you stop, even if it's just to ask for directions."

At the final destination, take precautions not to overdo sightseeing or

outdoor activities on the first day, so that blistered feet or sunburn won't spoil the rest of the week.

"Foot blisters take about a week to heal, so it's better to try to prevent them," Campbell said.

"Don't try out new shoes on a vacation. Make sure you have a comfortable, well-fitting pair, and wear cotton socks and cushion insoles if you're going to be on your feet a lot."

Interagency mail service helps departments save on postage

The University post office offers a service that can help departments save a good bit of money on postage.

A typical letter in a business-sized envelope, if mailed to another state agency through the U.S. mail service, costs 22 cents to send. If mailed through Clemson's interagency mail service, the same letter will cost only 5 cents to send -- a savings of 17 cents.

The interagency service is the most economical choice when sending first-class mail weighing less than 5 pounds or for other classes of mail weighing less than 16 pounds.

Departments are charged 5 cents per ounce for first class mail and 1 cent per ounce for other classes, which are used to mail books, film or other bulky items.

Items mailed to Columbia-area agencies will be delivered in one day, and items mailed to other agencies will be delivered within two days.

Interagency mail service forms and a list of all the state agencies on the mail routes are available in the University post office.

For more information, call the post office at 656-2351.

Horticulture professor publishes fifth textbook

Teaching is what horticulture Professor Gordon Halfacre enjoys most, so the recent publication of his fifth textbook is really just an extension of his own classroom to classrooms at other universities.

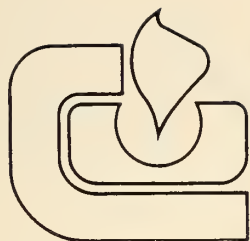
It also makes him one of the nation's most prolific writers of college textbooks in horticulture.

The book, "Plant Science," released in January, already is being used at many schools such as Penn State, Cornell, Michigan State and Ohio State.

Published by McGraw Hill, the textbook fills a need for a comprehensive volume encompassing all major areas of plant science, Halfacre said.

The book was co-authored by John Barden and David Parrish of the Virginia Polytechnic Institute and State University.

Besides being a writer and a teacher, Halfacre has earned recognition as a pioneer for his research on the effect of certain growth regulators on plants and in the use of microcomputer graphics for landscape design.



Events

INFORMATION FOR THE FACULTY AND STAFF OF CLEMSON UNIVERSITY

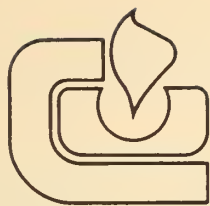
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APR 29 1987

May 1 - 8

- | | |
|-------------------|---|
| Through
May 8 | Art show: works from Carole Tinsley's art studio. Union Art Gallery. (University Union, 656-2461) |
| Through
May 25 | Student Honors Exhibition. 9 a.m.-4:30 p.m. weekdays and 2-5 p.m. Sundays, Rudolph E. Lee Gallery in Lee Hall, free. (College of Architecture, 656-3081) |
| 4-6 | Seminar: Statistical Quality Control. (Professional Development, 656-2200) |
| 5-6 | Conference: High Performance Composites. (Professional Development, 656-2200) |
| 5-6 | Conference: New Technologies for Improving Efficiency, Productivity and Quality in Shuttleless Weaving. (Professional Development, 656-2200) |
| 7 | Senior departmental honors graduates' banquet. (Calhoun College, 656-3022) |
| 7-8 | Men's tennis: Miami. Sloan Tennis Center. (656-2061) |
| 8 | Commencement. 11 a.m., Littlejohn Coliseum. |
| 8-10 | Baseball: South Alabama. University baseball field. (656-2061) |

Continuous YMCA-sponsored classes in women's, men's and youth's fitness, aerobics, exercise, Jazzercise, social dancing, Middle Eastern dance, swimming and aquacizing, gymnastics, lifesaving, tennis and after-school day-care and parents' night out programs. (656-2460)



MAY 6 1987

Newsletter

Vol. 26, No. 33

May 6, 1987

Information for the Faculty and Staff of Clemson University

Employees will pay to park for first time

The President's Cabinet April 28 endorsed a proposal from the University Parking and Traffic Committee to establish a flat fee of \$12 for campus parking privileges.

Employees and students now will pay a \$12 annual vehicle registration fee. The cost of registering a car for one semester or just for the summer will be \$6.

This amounts to a \$4 increase in registration fees for students and a whole new ball game for employees.

At a meeting of the Faculty Senate April 7, President Max Lennon announced that the Parking and Vehicle Registration Office will be a self-supporting auxiliary beginning July 1, and to balance the operation's budget, employees will have to be charged parking fees for the first time in the University's history.

Lennon said the education and general budget has been cut as far as it can be, and to protect the academic programs from more budget reductions the University must generate more money.

"I do not like it, and I don't expect anyone else to, because it will cost all of us," Lennon said.

"But on the other hand, I believe it's our responsibility to guard, if at all possible, faculty positions and related support."

The only alternative, he said, is to cut more deeply into academic programs and funding for faculty.

The parking office's budget in the past has been supported by the University's education and general fund and by parking fine revenues. The office now will pay for staff salaries, equipment and supplies, and parking lot maintenance and improvements with fine revenues and decal fees, said Bill Pace, director of Parking and

Vehicle Registration.

Limiting cars on campus

The Cabinet also approved the committee's proposal to limit the number of cars an employee may have on campus at one time.

Each employee will be given only one removable tag that must be displayed hanging down from the rearview mirror when his or her car is parked on campus. A car parked on campus displaying window decals but no removable tag therefore will be parked illegally and will be ticketed.

Pace said this shouldn't be a problem for any employee, but it will free up some employee parking spaces by discouraging faculty and staff members from letting their non-employee spouses or children park the family's second car in employee spaces during the workday.

A family with two University employees will be eligible to receive two removable tags, he said.

The parking office has not decided whether employees will be able to register an unlimited number of cars. Registration could be limited to two cars per employee.

Business and Finance parking proposals

Vice President for Business and Finance David Larson's original parking proposal, which recommended charging employees and students high decal fees and establishing a transportation system, has been rejected by the Faculty Senate, the Commission on Classified Staff Affairs and student government groups.

The employee groups agreed that faculty and staff members should not be charged for what would amount to a service for students, and they also

agreed that a reserved-space system should not be implemented, at least not until the entire parking issue has been studied more carefully.

Larson's office submitted a revised proposal to the Parking and Traffic Committee in April. The proposal called for a smaller number of reserved parking spaces, a transportation system paid for by the students only, a reorganization of parking lots to group commuter students together in one area and an increase in the number of visitors' spaces near Sikes and Tillman halls.

This proposal also met with opposition from the employee representatives on the parking committee.

The students on the committee, who originally supported Larson's proposal, now are concerned about the noise and exhaust fumes shuttle buses may produce on campus. They, like the employees, would like the alternatives studied further.

Parking subcommittees

Pace, who is chairman of the Parking and Traffic Committee, has established two subcommittees to work on the parking problem during the 1987-88 academic year.

Civil engineering Professor Ed Clark is chairman of the subcommittee on engineering and policy. This group will study the physical parking conditions and needs and will recommend a general parking policy.

Student Melanie Swann is chairman of the subcommittee on transportation. Swann, other students, and staff advisers will study the feasibility of beginning a student-funded transportation system in 1988.

(Continued on next page.)

Briefly...

Stevenson gets new post

Jack Stevenson, director of the Calhoun Honors College, has been elected faculty president of the Southern Regional Honors Council.

The 400-member council represents 70 schools in 11 South-eastern states.

Stevenson served as vice president last year.

Clemson's honors program, which recently celebrated its silver anniversary, has grown to 485 members under Stevenson's direction.

Professor, students win trip to Italy

The Italian Trade Commission has awarded all-expense-paid, one-month trips to Italy to three students and one professor in the School of Textiles.

Assistant Professor Frank Hunter and students John Hall, Kevin Hawkins and Phillip Kesler will visit textile equipment manufacturing facilities in Italy.

Clemson, Georgia Tech and North Carolina State University were chosen to participate in the tours because of the schools' outstanding textiles programs.

Bird prints donated to Hanover House

Two hand-colored bird prints by 18th-century artist Mark Catesby have been added to the collection of the historic Hanover House.

The prints are a gift of Spartanburg residents Mr. and Mrs. Charles N. Gignilliat Jr.

Hanover House, built by Paul de St. Julien in the Lowcountry in 1716, was reconstructed on the Clemson campus in 1941. It is open to the public on weekends.

Awards to be presented

Faculty meets tomorrow

Several awards will be presented to faculty members tomorrow (May 7) at the general faculty meeting at 10 a.m. in Tillman Hall Auditorium.

After a report from Larry Dyck, immediate past president of the Faculty Senate, the winners of the Outstanding Research Award, the Frank A. Burtner Award for Excellence in Advising Students and the American Association of University Professors Awards will be

announced.

In addition, Scholarships and Awards Committee Chairman Jack Stevenson will nominate a student to receive the Norris Medal.

Forestry Professor David Hon and electrical and computer engineering Assistant Professor Yuan Zheng will give presentations on their special projects.

President Max Lennon's address will close the meeting.

Fire chief recognized for proposal

University Fire Chief Jack Abraham is among 10 fire service professionals selected as finalists in an international fellowship competition.

The competition, sponsored by the National Fire Protection Association's Fire Command magazine, drew hundreds of formal study proposals from across the world.

Abraham, whose department

serves both the city of Clemson and the University, proposed studying the organization and fire safety preparations of selected schools in England and France.

Abraham has been a fire service professional for 15 years and was named Clemson fire chief in 1984. He is also an adjunct lecturer in the College of Commerce and Industry.

Parking, cont.

Tougher enforcement

The President's Cabinet also approved changes in the University parking and traffic code, including a 100 percent increase in parking fines.

Fines will be discounted by 50 percent, however, if payment is received by the parking office within 30 days of the ticket date.

The new code also cracks down on repeat offenders:

- Habitual offenders (those per-

sons with 10 or more parking tickets from one year) who continue to disregard parking regulations after being counseled may have parking privileges suspended for all or part of one year.

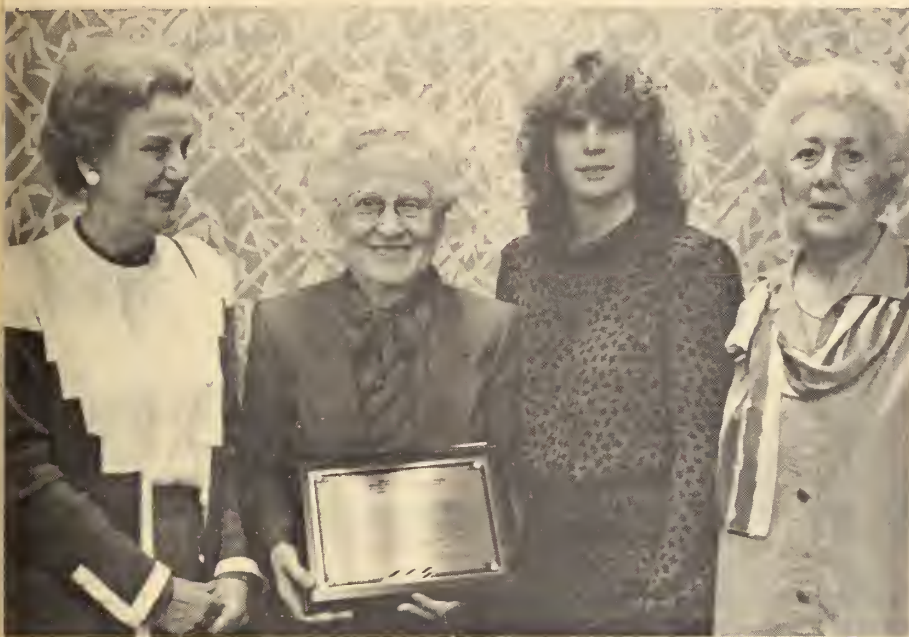
- The University will tow vehicles if the owner has five or more unpaid parking tickets.

- Towed cars will not be released to the owner until all outstanding parking fines, towing charges and impounding fees have been paid.

The Clemson University Newsletter is published for the faculty and staff of Clemson University by the Division of University Relations.

University Newsletter Editor Deborah M. Slice
Acting Director, News Services ... Catherine Sams

We welcome your comments and suggestions. Call us at 656-4989 or write us at 103 Fike Center. **DEADLINE Is May 12, noon, for May 20 Issue.**



Ruby Craven (second from left) received the second annual Susan B. McWhorter Outstanding Woman Professional Award from the Association of Women Professionals. Pictured with her (left to right) are Edythe Lambert, president of the American Association of University Women, the organization that nominated Craven for the award; Judy Nicks, chairman of the McWhorter Award Committee; and Dorsette Berry, mother of the late Susan McWhorter.

Honored for 50 years' service

Retired Extension leader receives McWhorter award

Ruby Mae Craven, retired state leader in Extension Service Home Economics, received the second annual Susan B. McWhorter Outstanding Woman Professional Award April 15.

The award was given to her by the Association of Women Professionals for the more than 50 years she has devoted to serving the people of South Carolina. Award winners are selected for their outstanding professional contributions, helping others to achieve and leadership in the community and church.

As a state, regional and county leader in Extension Home Economics, Craven helped South Carolinians improve their lives by emphasizing wise home management, strong family life and good nutrition.

Craven was selected by her peers

to serve as president of the S.C. Home Economics Association, chairman of the State Presidents Unit and a member of the executive board of the American Home Economics Association.

She also is a member of the Winthrop College Foundation's planning board and is an honored past president of the American Association of University Women in Clemson.

Craven is a deacon in her church, a Sunday School teacher and former president of the Baptist Women group.

When she was presented the award, Craven thanked the Clemson organization and the McWhorter family for establishing the award in memory of Susan, who was a member of the University's Personnel staff.

Children need social security numbers

One provision of the Tax Reform Act of 1986 requires that the social security numbers of all dependents, 5 years old and up, be listed on tax returns.

"If you expect to claim on your tax return next year a dependent who does not have a social security number, either you or that person should apply for a number as soon as possible," said Ron Herrin, director of payroll and employee benefits programs.

"Since anyone of any age may be issued a number, applications should be made even for very young children."

The Internal Revenue Service had this new requirement added to the 1986 tax reform so it could keep closer tabs on certain categories of tax cheaters -- for example, parents who file separate tax returns for their children but claim the same children as dependents for deductions.

"We urge everyone who is affected by this provision to take care of the matter as soon as possible and avoid the last-minute crunch at tax-return time next April," Herrin said.

Applications for social security cards are available in the Payroll and Insurance Office, G13 Sikes Hall.

Health Insurance Open Enrollment Through May 29

Call the Payroll and Employee Benefits Office at 656-2000 for more information.

Employees receive 30-, 40-year service pins

Twenty-five University employees in 1986 received pins from the Personnel Office for 30 years of service to Clemson, and one received a pin for 40 years' service.

Gilbert Robinson, ceramic engineering professor, has been with Clemson 40 years.

The 30-year employees are Carl Ackerman, animal science professor; Claire Baker, Dillon County Extension agent; Bobby Barnett, professor and acting associate director of the S.C. Agricultural Experiment Station program; Bernice Brown, Dorchester County Extension chairman for home economics; Wilbert Byrd, experimental statistics professor; Billie Catoe, administrative specialist with

the Lancaster County Extension office; Mildred Cunningham, administrative specialist with the Darlington County Extension office (now retired); Charles Fain, ceramic engineering professor; and John Fulmer, horticulture professor (now retired).

Also, Patricia Hawkins, Physical Plant staff assistant; Freddie Howard, agricultural aide (now retired); David Howe, Orangeburg County Extension chairman; Frances Langston, administrative specialist at the Pee Dee Research and Education Center; William Mattox, director of admissions and registration; Virginia Oglesby, supervisor in custodial services; Merrill Palmer, animal science associate professor; and Jimmie Pridmore,

York County Extension chairman.

Also, Miriam Saggus, administrative specialist with the Edgefield County Extension office; Catherine Spurlock, data coordinator for alumni relations; Clyde Strange, Chester County Extension chairman; Walton Wilson, laboratory machine shop supervisor in engineering services; William Witherspoon, Horry County Extension chairman; Betty Woodall, editorial assistant for the College of Commerce and Industry; and Clyde Woodall, coordinator of Extension staff development.

A 30-year pin also was given posthumously to Robert Henningson, who was an associate dean in the Office of University Research.

Nurses offer free exams for children

The School Nurse Practitioner Program of the College of Nursing is making appointments now for free physical examinations for children July 1-August 4.

The program prepares registered nurses to provide health services for school-age youth.

An important part of the project is to provide the nurses opportunities to do actual health history reports and physical examinations, said Lorena Downs, director of the program.

All examinations are supervised by skilled nurses, nurse practitioners and physicians.

"This is not meant in any way to replace your child's regular medical care," said Downs.

"It is an opportunity to help a group of enthusiastic students increase their skills and an opportunity for school-age children to help adults learn."

Call the Nursing Center at 656-3076 for more information or to set up an appointment.

Graduation

Friday, May 8
11 a.m., Littlejohn Coliseum

University welcomes 13 new faculty and staff members

The University welcomes these 13 new employees who joined Clemson in the past three months:

Admissions and Registration: Rhonda Deaton, administrative specialist.

Alumni Relations: Pamela Abercrombie, administrative specialist.

Budgets and Systems: Susan Hofacker, data management and research analyst.

Computer Center: Richard Pruitt, systems programmer.

Electrical and Computer Engineering: Nancy Henkey, administrative specialist.

Extension Service Edisto

Research and Education Center: Rome Davis, agricultural science associate.

Forestry: John Reardon, research associate.

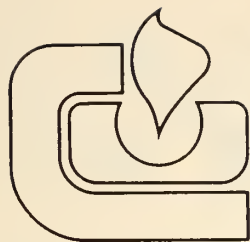
Horticulture: Daniel Lineberger, department head and professor.

Information Systems Development: Frank Backitis Jr. and Sandra Elks, programmer analysts.

Liberal Arts: Diane Briant, administrative specialist.

Library: Gladys Jenkins, Cooper Library technician assistant.

Mathematical Sciences: Pamela Conner, word processor operator.



Events

INFORMATION FOR THE FACULTY AND STAFF OF CLEMSON UNIVERSITY

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MAY 6 1987

May 8-15

- | | |
|-------------------|--|
| Through
May 8 | Art show: works from Carole Tinsley's art studio. Union Art Gallery. (University Union, 656-2461) |
| Through
May 25 | Student Honors Exhibition. 9 a.m.-4:30 p.m. weekdays and 2-5 p.m. Sundays, Rudolph E. Lee Gallery in Lee Hall, free. (College of Architecture, 656-3081) |
| 7-8 | Men's tennis: Miami. Sloan Tennis Center. (656-2061) |
| 8 | Graduation. 11 a.m., Littlejohn Coliseum. |
| 8-10 | Baseball: South Alabama. University baseball field. (656-2061) |
| 9-10 | Men's tennis: Clemson Spring Classic. 1 p.m., Sloan Tennis Center. (656-2101) |
| 11 | Meeting: Professional Secretaries International. 5 p.m., Golden Corral restaurant. Officer elections -- closed to non-members. |
| 11-15 | Short course: Beyond Vital Signs: Physical Assessment Skills. (Continuing Nursing Education, 656-3078) |
| 12-13 | Seminar: Statistical Process Control for Textiles. (Professional Development, 656-2200) |
| 13 | Meeting: Women in Higher Education Network. Noon, Golden Corral restaurant. Donna Crossman, visiting assistant professor of sociology, will speak on "Daughters and Aging Parents: The Other Generation Gap." |
| 15 | Animal Science Field Day. The Block and Bridle Club will demonstrate their skills at a 1 p.m. show at the Bull Test Station. Free. (Animal Science, 656-5156) |

Continuous YMCA-sponsored classes in women's, men's and youth's fitness, aerobics, exercise, Jazzercise, social dancing, Middle Eastern dance, swimming and aquacizing, gymnastics, lifesaving, tennis and after-school day-care and parents' night out programs. (656-2460)



Newsletter

MAY 14 1987

Vol. 26, No. 34

May 13, 1987

Information for the Faculty and Staff of Clemson University

Briefly...

Five receive Fulbrights

Clemson once again has achieved 100-percent success in the annual competition for student Fulbright grants and scholarships. All five of the University's nominees this year have been selected to receive awards.

The winners are Tullie Fellers, Mark Niederauer, Keith Norman, Tony Philipp and Phil Weinsier.

Department gets grant

The Society of Plastics Engineers has awarded the department of chemical engineering a \$5,000 grant for new equipment to be used in advanced plastics research.

The money will go toward the purchase of an apparatus that measures the viscosity, or stiffness, of experimental plastics, said Dan Edie, professor of chemical engineering.

"We are one of five schools the Society of Plastics Engineers has targeted for research grants recently," Edie said.

The most recent grant brings the society's total donations to Clemson to \$16,000 in the past two years.

Ticket deadline nears

The deadline for applying for season tickets for this fall's Clemson football games is May 29.

Faculty and staff members can purchase season tickets for \$72, and members of IPTAY can buy them for \$120.

Call the athletic department ticket office at 656-2118 for more information.



Ulbrich



Knapp



Robinson

Three receive professorships

Experts in parental grief, ceramic engineering and volunteerism have been named Clemson Alumni Professors.

The appointments of sociologist Ronald Knapp, engineer Gilbert Robinson and economist Holley Ulbrich bring to 20 the number of Alumni Professorships supported by gifts to the Clemson University Foundation.

The professorships, which boost each recipient's annual salary by \$3,000, help the University reward and retain its top faculty members.

Knapp's and Robinson's professorships are benefits of an endowment supported by the Class of 1934. Knapp is now Class of '34 Alumni Professor, and Robinson's new post as Lucius Harvin Alumni Professor honors the late Lucius Harvin, who served for 51 years as class president.

Knapp, at Clemson since 1965, is best known for his research and writings on parental grief caused by the death of a child. His books include "Beyond Endurance: When a Child Dies," published in 1986, and "Motherhood and Mourning: Perinatal Death," written with Associate

Professor Larry Peppers.

A revised version of "Motherhood and Mourning" was published in 1985 as "How to Go on Living After the Death of a Child."

Robinson organized the ceramic engineering department in 1946 and was its head until 1985, guiding its development as the major teaching, research and public service resource for South Carolina's ceramics industry. Since the department began, the annual value of ceramic products coming from the state has jumped from around \$6 million to approximately \$800 million.

Ulbrich joined Clemson in 1967. She's authored or coauthored four economics textbooks; worked for a year in Washington, D.C., with the Advisory Commission on Intergovernmental Relations; won a National Science Foundation fellowship and a Freedoms Foundation Award for Excellence in Private Enterprise Education; and served as president of the Faculty Senate.

She is a Senior Fellow of the Strom Thurmond Institute and head of its Volunteerism and Civic Participation Working Group.



Motor pool supervisor Bill Nix (left), shop supervisor Marty Marcengill (center) and President Max Lennon discuss strategies for maintaining a shop with high standards of quality.

Motor pool ranks high

The University motor pool received special recognition recently from the S.C. Budget and Control Board's Division of Motor Vehicle Management.

This year the motor pool shop, supervised by Marty Marcengill, exceeded the division's criteria for safety and quality and ranked in the top 2 percent of all state-operated shops.

All shops are required to meet Occupational Safety and Health Administration standards, maintain special automotive equipment and provide continuous training opportunities for mechanics.

Health Insurance Open Enrollment Through May 29

Call the Payroll and Employee Benefits Office at 656-2000 for more information.

D.C.I.T. helps plan for office automation

The Division of Computing and Information Technology staff can help your department plan an office automation system.

"Anyone considering a venture into office automation should consult the D.C.I.T. staff before making any plans or commitments," said Chris Duckenfield, vice provost for computing and information technology.

Each office is different and will require individual study before a decision on the appropriate equipment and software can be made, he said.

Extension secretary gets recognition for service

An administrative specialist with the Extension Service has been honored for her service to the people of Colleton County.



Fryar

Lynette Fryar was presented an Outstanding Service Award for her contributions to the Colleton County Extension Office, where she often exceeds her job requirements in secretarial work with programs in agriculture, home economics, 4-H and community development, said Danny Howard, Extension chairman in Colleton.

Fryar serves as president of the S.C. Association of Cooperative Extension Secretaries for the Savannah Valley District.

She also does volunteer work for the American Cancer Society, the Colleton County United Way and the Lowcountry District Home and Health Care Advisory.

She has worked for the Clemson Extension Service for 14 years.

The Clemson University Newsletter is published for the faculty and staff of Clemson University by the Division of University Relations.

University Newsletter Editor Deborah M. Slice
Acting Director, News Services ... Catherine Sams

We welcome your comments and suggestions. Call us at 656-4989 or write us at 103 Fike Center. **DEADLINE is May 19, noon, for May 27 issue.**

Departmental notes

Agricultural Economics and Rural Sociology

B.L. Dillman (Prof) discussed a paper written by C. Long, "The Metro Influence on Rural Counties," and chaired a session on "The Service Sector" at the annual meeting of the Southern Regional Science Association in Atlanta in March.

Architecture

J.F. Barker (Dean) published "The Courthouse Square" in Architecture California.

Architectural Studies

R.B. Norman (Prof) published "Electronic Color in the Design Studio" in Plan and Print.

G. Walker (Assoc Prof) published "Architecture, Method and Poetic Image" and **P.R. Lee** (Alum Prof) published "Some Thoughts on the Education of the Future Practitioner" in the Journal of Architectural Education's Jubilee issue.

Building Science

At the annual meeting of the Associated Schools of Construction at Purdue University in Indiana,

- **S. Schuette** (Assoc Prof) was selected to the national board of directors and was named chairman of the association's Industry Relations Committee. Schuette also became a member of the Educator Advisory Committee of the Merit Shop Foundation of Washington, D.C.

- **R.W. Liska** (Assoc Prof) presented "Faculty Preparation for ACCE Accreditation" and led a training session for potential members of ACCE Accreditation Visiting Teams. Liska also was elected to the board of directors of Sigma Lambda Chi, the national honorary construction society.

Liska was appointed chairman of the National Publications Committee of the American Institute of Constructors at the association's annual meeting in Indiana.

Chemical Engineering

The following papers were presented at the spring national meeting of the American Institute of Chemical Engineers in Houston, Texas, in April:

- "Dehydration of Acetic-Acid-Water Mixtures With Supercritical Fluid Solvents" by **M.C. Thies** (Asst Prof)

and **J.C. Mullins** (Prof).

- "Effect of Quadrupolar Forces in Fluorides of Homonuclear Diatomic Molecules" by **J.M. Haile** (Prof), **M. Bohn** (Grad Stu) and **J. Fischer** (West Germany).

Chemistry

G. Spencer (Prof) and **U.R. Goradia** (Grad Stu) published "Sorption of Propane in Poly (ethyl Methacrylate) Near Tg" in Journal of Applied Polymer Science. He also presented "Crosslinked Formed-in-Place Hyperfiltration Membranes," written with **K.S. Menon** (Grad Stu), **Y. Sun** (Grad Stu) and **D.B. McClellan** (CARRE Inc.), at the 193rd national meeting of the American Chemical Society in Denver, Colo., in April.

M.M. Cooper (Vstg Instr) and **J.W. Huffman** (Prof) published "Reaction of an Enaminone With 1-Nitrocyclopentene: Synthesis of a Triquinane" in Journal of the Chemical Society.

T. Tisue (Assoc Prof) has been appointed by the president of the University of Chicago to serve a three-year term on the review panel for Argonne National Laboratory's division of educational programs. Argonne is operated by the university for the U.S. Department of Energy. Tisue is also the recipient of a summer faculty research participation appointment with Argonne's environmental research division. He will be accompanied by **A. Bailey** (Grad Asst), who was awarded a "thesis parts" appointment.

K. Dill (Assoc Prof):

- and **A.N. Egbewatt** (Grad Stu) published "Interaction of Mn²⁺ and Gd³⁺ With Phytic Acid" in the bioinorganic section of Inorganica Chimica Acta.

- and **S. Hu** (Grad Stu) conducted research with a state-of-the-art, 500 MHz nuclear magnetic resonance spectrometer at the National Institute of Environmental Health Science at the Research Triangle Park in North Carolina in April.

- conducted research involving British anti-lewisite and also set up pulsed

saturation transfer nuclear magnetic resonance spectroscopic experiments at the Letterman Army Institute of Research in San Francisco in March.

K. McKinney (Undergrad) and **J.C. Fanning** (Prof) presented "Determination of the Ferrous-Ferric Ratio in Class Using Ion Chromatography" at the American Chemical Society's Southeastern Regional Conference of Undergraduate Chemists at Virginia Commonwealth University in March.

Fanning presented "How to Live and Be Happy With the BSAP State Science Objectives" to the faculty of the Nevitt Forest Elementary School in Anderson in March.

Computer Science

R.M. Geist III (Assoc Prof), **R.A. Allen** (Instr) and **R.H. Nowaczyk** (Assoc Prof, psychology) presented "Towards a Model of User Perception of Computer System Response Time" at the ACM SIGCHI Conference on Human Factors in Computing Systems in Toronto, Canada.

Earth Science

R.D. Warner (Assoc Prof), **V.S. Griffin** (Prof) and **J.G. Bryan** (Former Undergrad) and others presented "Mineralogy and Geochemistry of Ultramafic Chlorite - Amphibole Schists, Inner Piedmont Belt, South Carolina" at the 36th annual meeting of the Southeastern section of the Geological Society of America in Norfolk, Va., in March.

At the same meeting, **D.S. Snipes** (Prof), **J. Castro** and **L. Mitchell** (S.C. Water Resources Commission) and **D.W. Brown**, **R.D. Astl** and **W.R. Fleck** (Former Undergrads) presented "A High Yield Well in the Charlotte Belt of the Piedmont of South Carolina."

C.G. Maples (Vstg Asst Prof), **J.B. Droste** and **N.G. Lane** (Indiana Univ)

(Continued on next page.)

Events

- Through May 25: **Student Honors Exhibition**. Lee Hall Gallery, free.
- May 15: **Animal Science Field Day**. 1 p.m., Bull Test Station, free.
- May 18: **Registration** for first summer session.
- May 19: **Classes begin**.

notes, cont.

published "A Birdfoot Delta From the Pennsylvanian Subsurface of Indiana" in the Indiana Academy of Science proceedings.

Maples was awarded a \$18,000 American Chemical Society/Petroleum Research Fund grant for research on "Coral Taxonomy and Biostratigraphy of the Tusculumbia and Monteagle Limestones (Mississippian) in Northern Alabama."

Electrical and Computer Engineering

The following papers were presented during the IEEE Region IV Conference in Tampa, Fla., in April:

- "Effects of Charge Injection on Oxide Breakdown Voltage" by **J. Adjaye** and **T.S. Taylor** (former Grad Research Assts) and **D.J. Dumin** (Prof).
- "Growth of Crystals Under the Influence of Applied Fields" by **D.R. Cochran** (Asst Prof).
- "Failure Analysis of Amorphous Silicon Solar Cells" by **P.A. Williamson** (Research Assoc) and **J.W. Lathrop** (Prof).
- "Stability and Precision in a Pulsed Electromigration Test System" by **Y.F. Lin** (Grad Research Asst) and **J.W. Harrison** (Prof).
- "A Buffer Management Scheme for an Ethernet Local Area Network" by **A. Collins** (Assoc Prof).
- "A Study of Electromigration in Double Level Metal Systems Using Oxide and Polymer Dielectrics" by **K.G. Kemp** (Grad Stu) and **K.F. Poole** (Assoc Prof).
- "A Fast But Simple Graphics Rasterizer" by Poole and **M.J. Izzard** (Grad Stu).
- "An Examination of Degradation Mechanisms in VLSI Device Input Protection Circuits Following High Current Impulse Injection" by **M.A. Bridgwood** (Asst Prof), **J.D. Sexton** and **I.A. Razzack** (Grad Research Assts).
- "The Autocorrelation of Non-Binary m-Sequences" by **J.J. Komo** (Assoc Prof).

The following papers were presented at the SRC Topical Research Conference on Reliability in March in Austin, Texas:

- "Oxide Reliability and Low Level I-V Characteristics of Sub 10nm Thick Oxides" by **D.J. Dumin** (Prof).
- "Electromigration Effects in VLSI

Due to Pulsed Currents" by Harrison.

- "ESD Frontier Research Areas" by Bridgwood.

Lathrop was an organizer of the SRC conference and a session chairman.

Engineering Graphics

R.M. Bata (Asst Prof) presented "Methanol and Ethanol Blends With Gasoline: An Experimental Approach to Engine Performance" at the 10th annual Energy Sources and Technology Conference and Exhibition of ASME in Dallas in February. Bata also presented "Data Bases for Engineering Graphics" at the ASEE meeting on computer graphics and computer-aided design in Austin, Texas, in January.

Engineering Services

R.J. Kopczyk (Assoc Prof) presented "Programmable Logic Controllers in Undergraduate Engineering Education" at the 16th annual International Programmable Controllers Conference and Exposition sponsored by the Engineering Society of Detroit.

English

S. Eisiminger (Assoc Prof) published "The Curious Disposition of Body Parts, 1800-1850: Coincidence or Romantic?" in The Exquisite Corpse.

R.W. Leeman (Instr, Speech) presented "Believing and Make-Believing: Metaphors of Christianity For and Against Prohibition" at the Southern Speech Communication meeting in St. Louis.

D.L. Shealy (Vstg Asst Prof) presented "Miss Alcott of Boston" at the Northeastern Modern Languages Association meeting in Boston in April.

Extension Home Economics

C.T. Mounter (Assoc Prof) and a committee (Margaret Johnson, Claudia Peebles, Bettie Ridley, Audrey Williams and Ann Yelton) received a \$3,000 grant from the Kellogg Foundation to fund a pilot program to develop the Family Community Leadership Project in South Carolina.

Finance

G.S. Sirmans (Assoc Prof) published "Real Estate Returns: The Historical Perspective" in Journal of Portfolio Management.

History

T. Perdue (Prof) received the Outstanding Teacher Award from the

Clemson chapter of Phi Alpha Theta history honor society. **C. Mott** (Undergrad) was named Outstanding Undergraduate and **J. Lancaster** (Grad Stu) Outstanding Graduate Student.

Languages

P. Heusinkveld (Assoc Prof, Spanish) presented "Muna, Yucatan: A Mayan Village Enters the Mainstream" at the annual meeting of the Southeast Council on Latin American Studies in Merida, Mexico.

The following papers were presented at the S.C. Conference on Foreign Language Teaching in Columbia in April:

- "Coordinating the Foreign Language Curriculum of Elementary and High Schools, Colleges and Universities in South Carolina: A Format for Competence" by **R. Willingham** (Instr, French).
- "Applied Language Curriculum Options at the Undergraduate Level" by **P.W. Wannamaker** (Assoc Prof).
- "Language and International Trade at the Undergraduate Level: A New Career Option" by Wannamaker and **E.P. Arnold** (Asst Prof, German).

On the same day, Arnold presented "Briefpartner in Deutschunterricht" at the meeting of the S.C. chapter of the American Association of Teachers of German. He was elected to a two-year term as president of the S.C. chapter.

Wannamaker also presented "Communication Aspects of the Proposed Language and International Trade Program at Clemson" at the Society for Technical Communications' S.C. chapter meeting in April.

Management

J. Abraham (Fire Chief, Adj Instr) published "Are You Using Your Local Fire Department Wisely?" in Professional Safety and "Command System Helps the Fire Brigade Organize in Industrial Emergencies" in Occupational Health and Safety magazine. Abraham is chief of the University fire department and emergency medical service.

Marketing

J.J. McClung (Asst Prof) presented results of a survey of honor students and led a workshop, "What Do Students Say?: Benefits of Participating in Honors," for the Southern Regional Honors Council annual conference in Tallahassee, Fla.

Newsletter

Vol. 26, No. 35

MAY 20 1987 May 20, 1987

Information for the Faculty and Staff of Clemson University

Briefly...

McDonald named 1987 Master Teacher

Mike McDonald, associate professor of industrial management, received the Alumni Master Teacher Award, given annually for distinguished achievements in classroom teaching, at graduation May 8.

The Alumni Master Teacher is selected by the Student Alumni Council from nominations solicited from the student body.

The once-in-a-lifetime honor carries a \$1,500 stipend from the Clemson Alumni Association.

Moyle travels to China

David Moyle, associate professor of bioengineering, will travel to China in June as a member of a national delegation of biomedical engineers who will exchange technical and cultural information with their Chinese counterparts.

His trip is sponsored by the Citizen Ambassador Program of Spokane, Wash.

"China has always been a mystery to me," said Moyle. "I think we, as a nation, know more about the Soviet Union than China, and although I've never been, I'm really looking forward to finding out what's behind that Great Wall."

**Health Insurance
Open Enrollment
Through May 29**

Call the Payroll and Employee
Benefits Office
at 656-2000
for more information.

President Lennon optimistic about Clemson's future

President Max Lennon, despite the University's long, hard year of budget cuts and difficult decisions, expressed optimism about the next few years at Clemson during the May 7 general faculty meeting.

"As we move into next year, I simply share with you that we are extremely excited and highly optimistic we will be able to become the institution we want to become, because we will be able to attract the support of all those around us," he said.

"It is our responsibility to do everything we can, at every level of the institution, to market aggressively the value of a quality education.

"We have set the academic core of the institution as our highest priority. It's a challenge for us to make sure we protect the reason for our existence."

Lennon told the faculty members that Clemson's and other state univer-

sities' lobbying efforts, with the support of many senators and the Commission on Higher Education, may encourage the Legislature to increase the level of funding for next year.

He also said the Research Investment Act, a matching funds program proposed by Clemson, the University of South Carolina and the Medical University of South Carolina, has received a positive response and promises of support from members of both the House of Representatives and the Senate.

"I find it troubling to note that the economy of our state is still growing significantly, yet we have these financial problems," Lennon said. "Clearly it's more of a financial management problem than a financial problem."

(Continued on next page.)



Retired sociology Professor Frank Burtner (left) hands civil engineering Associate Professor Robert Nowack (center) a check for \$1,000 at the general faculty meeting May 7. Nowack received the first Frank A. Burtner Award for Excellence in Advising Students. Also pictured is Nick Lomax, vice president for student affairs.

Faculty members honored for excellence

Eighteen faculty members were recognized for their dedication to teaching, research and Clemson University during the general faculty meeting May 7.

- Robert Nowack, associate professor of civil engineering, received the first Frank A. Burtner Award for Excellence in Advising Students and a check for \$1,000.

The award is presented by the Division of Student Affairs in honor of Frank Burtner, a professor of sociology and economics, who during his 45 years at Clemson became known as friend, adviser and confidant to generations of students.

In addition to individual students, Nowack has served as adviser to many student groups, including Phi Kappa Alpha fraternity, Tiger Brotherhood, Blue Key honor society and the Newman Club.

- C.P. Leslie Grady, the R.A. Bowen Professor of Environmental Systems Engineering, received the Alumni Award for Distinguished

Achievement in Research.

The award, given annually by the Clemson Alumni Association and Phi Kappa Phi honor society, carries a \$1,500 stipend to support the recipient's research.

Grady's research on biodegradation in wastewater has attracted more than \$1 million in support from the National Science Foundation and the Environmental Protection Agency.

- Associate Professor of Music Lillian Harder and Associate Professor of Finance Richard Klein received American Association of University Professors Awards of Merit.

Each year, the Clemson chapter of AAUP recognizes individual faculty members "whose lives and work embody the highest ideals of the academic profession."

Harder was selected to receive the award for her contributions to the University's performing arts program, said Charles McKelvey, Clemson AAUP president.

"Her efforts in creating an endow-

ment for the arts at Clemson ensure that her contributions will have a permanent impact," he said.

Klein was selected for his service as the faculty adviser to the B'nai B'rith Hillel student organization and as an ambassador of the Jewish people to the Clemson community, McKelvey said.

- Fourteen retiring faculty members received emeritus certificates from Provost David Maxwell and President Max Lennon.

These 14 have a combined service to Clemson of 718 years, 2 months and 16 days.

The emeritus faculty members are Carl Ackerman, animal science; Bobby Barnett, poultry science; John Butler, music; Claire Caskey, English; Frances Colburn, library circulation; John Evans, agricultural support; Ralph Knowland, building science; Oliver Lumpkin, education; Harlan McClure, architecture; Harold Musen, agronomy and soils; Clifford Nolan, agronomy and soils; John Rodgers, agricultural education; Frederick Simon, textiles; and Merle Swicegood, Extension home economics.

- Also at the meeting, Jack Stevenson, director of Calhoun College, nominated student Tallulah Fellers to receive this year's Norris Medal, which honors the University's best all-around graduating student as selected by the Scholarships and Awards Committee.

Fellers graduated May 8 with a 4.0 grade point ratio in a chemistry and German double major. Earlier this year she received a Fulbright scholarship and an Algernon Sydney Sullivan medal for community service

Clemson's future, continued

Governor Carroll Campbell and others are determined to do something about the universities' need for more state funding, he said.

"We're more convinced than ever that over the next several years our efforts will bear visible, positive fruit, and that we'll be able to do those things we think are necessary to continue our progress and maturation as an institution."

Lennon said the University will be emphasizing the value of scholarships to help keep top students from South Carolina enrolled in the state's colleges and employed in the state's businesses, the value of professorships to help retain the best teachers and researchers, and the value of matching funds programs to invest in the research that will help Clemson receive more external support and become more competitive nationally.

Lennon thanked the faculty for its support during an academic year with so many financial frustrations.

"These are rapidly changing times, and in our state, it has indeed been a very difficult year," Lennon said.

"And I want to thank each of you, because I have learned not only to love you but also to respect you for your continued commitment to the institution and to your professions, your students, your disciplines.

"I'm proud of you."

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University Newsletter Editor Deborah M. Slice
Acting Director, News Services ... Catherine Sams

We welcome your comments and suggestions. Call us at 656-4989 or write us at 103 Fike Center. **DEADLINE Is May 26, noon, for June 3 issue.**

Dyck recaps Faculty Senate year

Clemson University is "teetering on the edge of an old and a new image," said Larry Dyck, immediate past president of the Faculty Senate, at the May 7 general faculty meeting.

"Your Faculty Senate has worked hard to keep you informed. The Senate has seen these transitional times as periods that demand open discussion and clarification of missions for colleges, departments and individual faculty.

"Such is the way that new horizons can be reached without the loss of traditional qualities and vitality."

Dyck urged faculty members to keep their senators informed of issues the faculty is concerned about.

"Goals, values and missions are changing. Communication is essential if we are to move through the transitional times gracefully," he said.

"The Faculty Senate can help."

He reported on the activities of the Senate this year:

- The Senate invited Verne

Stadtman of the Carnegie Foundation to campus to discuss the foundation's report, "College: The Undergraduate Experience in America."

- The Senate studied and developed proposals on the teaching evaluation process, professorships for distinguished teaching, a performing arts review process, and the structure and responsibilities of the Athletic Council, the President's Cabinet and Council and commissions.

- The Welfare Committee, chaired by Richard Calhoun, studied many issues: asbestos in campus buildings, on-campus child care, instructional productivity awards, faculty attendance at graduation, health insurance and retirement options, sick leave benefits, a wellness program and other issues of mutual concern with the University of South Carolina's Faculty Senate.

- The Research Committee, chaired by Glenn Birrenkott, initiated a discussion of how faculty members

could benefit from two University initiatives, the Clemson University Research Foundation and the Emerging Technology and Marketing Center.

- The Scholastic Policies Committee, chaired by Ron Nowaczyk, developed a series of admissions and enrollment proposals which now have become University policy.

The committee also studied changes in the recommended course credit load for students on probation, admission policy for special institutes and common exam schedules.

- The Policy Committee, chaired by Dale Linvill, developed a summary of the Faculty Manual for use by the Board of Trustees and studied ways in which all University manuals can be computerized to provide easy access for all employees.

An ad hoc committee led by Linvill studied the grievance process and suggested changes in the current policy.

CHE report praises engineering program

Clemson's environmental systems engineering program was the only one of 49 state undergraduate and graduate engineering programs singled out for commendation recently by consultants reporting to the Commission on Higher Education.

The consultants recommended that the CHE grant the ESE program a full commitment of resources" for its continuation and enhancement.

The program, the report says, has by far, the highest national visibility of any engineering program in the state" and is ranked among the top five or six in the nation.

Also receiving praise were the University's programs in bioengineering, civil engineering, ceramic engineering, and electrical and computer engineering.

The report says Clemson's

robotics program has the potential for being a "major state resource and perhaps even a national resource if successful."

The nation's first bipedal robot, engineered by Assistant Professor Yuan Zheng, made its campus debut May 7 at the general faculty meeting.

Gifts fund scholarships, professorship

Recent gifts to the University will support a new scholarship, a new fellowship and a new professorship.

Eddie Ervin Jr. of Neptune Beach, Fla., has established an annual \$2,500 scholarship for business majors in honor of his brother-in-law, Alvin A. McCall Jr. of Greenville. McCall is founder and chairman of Ryan's Family Steak Houses Inc., and Ervin is president and chairman of Family Steak Houses of Florida Inc., a Ryan's franchisee.

Mrs. Ernest Hicks of Anderson has

given a \$2,500 fellowship to encourage graduate study. The grant will be known as the Ernest H. and Ruby Sharp Hicks Fellowship.

J.R. Swetenburg Jr. and his family have endowed a professorship in textile manufacturing. Swetenburg is vice president for manufacturing with Clinton Mills.

The professorship is named for his late father, J.R. Swetenburg Sr., who worked with Gluck Mills of Anderson, which is now the Wellington division of West Point-Pepperell.

Clemson fares well in Carnegie studies

Clemson University "deserves high marks" for some of its programs and has "serious shortcomings" in others, say members of the ad hoc committees formed to study Clemson's relationship to the report on undergraduate education released by the Carnegie Foundation for the Advancement of Teaching.

The eight committees' job was to study the "tension points" of education described in the report, "College: The Undergraduate Experience in America," to determine whether Clemson shows any signs of those tensions and to make recommendations for program or policy improvement.

The Carnegie report focused on eight problems in undergraduate education today: the rocky transition from high school to college, confusion over institutional goals, loyalties of faculty members divided between research and teaching, tension between conformity and creativity in the classroom, a separation of social and academic life on campus, disagreement about college government, debate over how the outcome of a college education should be measured, and a gap between the college and the larger world.

The committees gave their final reports to the President's Council April 24.

Although all eight groups found program areas in need of improvement, they also found areas deserving of praise:

- Clemson "deserves high marks" for its efforts to acclimate students entering the University as freshmen. Three areas that especially deserve commendation for reducing discontinuity between high school and college are the Admissions Office (for its work with high school guidance counselors and for a thorough admissions process) and the departments of English and elementary and secondary education (for their work in promoting proficiency in written and spoken English.)

- The University encourages "excellence of achievement and

integrity of character" by offering students membership in professional societies and by rewarding work well done.

- The accomplishments of Clemson alumni and their support of the University are "the best evidence Clemson has done a commendable job preparing its students."

- Clemson's laboratory, internship and cooperative education programs prepare students well for their chosen fields.

The problem areas discussed in the committees' reports include:

- poor academic advising.
- an increasingly technical, and less broad, academic curriculum.

- a lack of communication between professor and student, due in part to large lecture classes.

- not enough emphasis placed on the relationship between the three missions of the University: public service, teaching and research.

Program helps kids earn money

Children from ages 5 to 18 can earn some summer spending money by helping out as models in the University's School Nurse Practitioner Program.

Participants will be paid \$2.50 per hour and could earn up to \$45 over a two-week period, June 17-26.

This annual summer program, which prepares registered nurses to provide health care services to school-age youth, needs children who will help the nurses practice physical and developmental assessment skills.

All examinations will be supervised by skilled nurses.

With the help of the children, the student nurses will practice giving physical examinations, completing children's health history reports and administering tests and screenings for health and intelligence development.

In addition to child participants, parents with children between 5 and 12 years old are needed to help

- not enough effort to help foreign students adjust to campus life.
- few incentives to improve teaching effectiveness.
- a commission structure without adequate representation by deans and department heads.
- a Faculty Senate with no representation by academic administrators.

After the committee chairmen gave their reports to the council, President Max Lennon challenged University leaders to take the reports to heart, to use the committees' findings to improve their work at Clemson and to develop specific proposals for improving the problem areas outlined in the reports.

The council accepted a recommendation from Larry Dyck, immediate past president of the Faculty Senate, to send each report to appropriate standing commissions and committees for further study.

student nurses practice completing developmental history reports.

Call Jo Ann Koonce at 654-5524 before May 29 for more information or to schedule appointments. The hours volunteers are needed vary from day to day.

Delegation gets award

Political science Professor Martin Slann and several students represented Clemson at the Model United Nations meeting in New York recently.

Clemson received one of only eight "Distinguished Delegation" awards presented.

Students from 140 institutions, including Brown and Georgetown universities, the College of William and Mary and the University of Georgia, participated in the competition.



Newsletter

Vol. 26, No. 36

May 27, 1987

Information for the Faculty and Staff of Clemson University

Briefly...

Extension Service names new assistant

The Extension Service has named Sara Bagby assistant director of Extension Home Economics.

She will replace Merle Swicegood, who retired in December 1986.

Bagby will coordinate the activities of county agents and state specialists in developing the service's home economic educational programs.

Bagby now is associate dean and head of the home economics department at Mississippi State University.

Exxon donates equipment

The Exxon Research and Engineering Co. has donated \$54,000 worth of laboratory equipment to the College of Engineering.

The equipment was donated to the departments of chemical, mechanical, and electrical and computer engineering.

Management gets grant

An equipment and software grant valued at \$251,000 from Hewlett-Packard will allow the management department to expand its classes in automated manufacturing management.

The classes, developed by management professors Larry LaForge and Chuck McNichols, allow students to gain managerial experience in a computer-simulated manufacturing plant.

Bill Heikkila, a Clemson graduate who serves on the management department's advisory board, initiated the gift from Hewlett-Packard.

Staff Commission supports a stronger review system

Some mechanism should be established in each vice president's area to ensure that the spirit and intent of the Employee Performance Management System is carried out, say members of the Commission on Classified Staff Affairs.

The commission voted May 12 to make several recommendations about the EPMS system to the President's Cabinet:

- Classified staff must be given the opportunity to see their job descriptions during the EPMS planning stage, and the specific duties of each position should be written on the evaluation form.

- A training program for evaluators should be established in each vice president's area as an expansion of the program already in place in the Personnel Division. More emphasis needs to be placed on the EPMS by vice presidents and other executive administrators so that the evaluators will better understand the responsibility and accountability associated with the evaluation process.

- A committee or other mechanism should be established in each area to randomly review evaluations, discuss the process with those employees evaluated and make recommendations to the executive administrator.

"The commission endorses the efforts of the Personnel Office to instruct supervisors in its EPMS training sessions," said Pat Padgett, commission chairman.

"However, it is the consensus of the Staff Commission members that this approach needs additional support. We want to be sure each evalua-

tion will be taken seriously and prepared fairly."

In other business, the commission selected member Mary Ann Eddy to represent the group on the University Parking and Traffic Committee.

Eddy also will begin an indefinite term as the commission's ex-officio recorder when her regular appointment ends in June.

Padgett announced that the end-of-the-year luncheon to honor the outgoing members and welcome the new members will be held June 2 at the Clemson House.

Student Life changes name

The Office of Student Life "went out of business" May 15 and became the Office of Student Development.

"We changed our department name and administrative titles to better reflect what we do in this office," said Joy Smith, director of student development.

Before May 15, Smith's title was dean of student life.

"The changes will help faculty and students more easily understand how our department fits into the Division of Student Affairs," she said.

Other new titles are Kirk Brague, director of student development programs; Teresa Evans and Michael Schardein, assistant directors of student development programs; Mickey Lewis, director of student development services; and Bonnie Stevens, assistant director of student development services.

In response to major budget cuts

Extension Service reorganizes districts

As of July 1, the Clemson University Extension Service will be organized into four, rather than three, service districts, and the chief Extension officer in each county will be called "director" instead of "chairman."

Border areas of the Pee Dee, Piedmont and Savannah Valley districts will form a new Midlands district covering Aiken, Chester, Chesterfield, Edgefield, Fairfield, Kershaw, Lancaster, Lexington, Richland and Saluda counties.

June Carroll, now a program leader in the Pee Dee, will direct the new district.

The realignment will follow more closely the state's agricultural production lines and will allow the Extension Service to operate more efficiently

with reduced manpower, said B.K. Webb, Extension director.

The title change for top county officers is part of a national trend to keep those administrators on par with county government officials such as public works directors and public safety directors, Webb said.

In recent years Extension has lost 65 positions because of state budget cuts, and Webb anticipates another 70 positions will be vacant and frozen by July 1.

"Although we have indications the budget situation is somewhat more optimistic now, and laying off or furloughing Extension personnel may not be necessary, we don't expect to be able to fill any of the vacant positions," Webb said.

Three other administrative changes have been made:

- W.C. Clinkscales was named director of the Pee Dee district.
- W.P. Yates, now chairman of the Pee Dee district, was named assistant to Elwyn Deal, assistant director of Extension-agriculture and natural resources. In that role, Yates will assist with all agricultural programs and will help coordinate a number of special Extension areas such as the marine, forestry and integrated pest management programs.
- Carol Webb, program leader in the Piedmont district, has been assigned to work with Bill Shimel, state leader for staff development. Webb will help develop training programs for all Extension employees.

University welcomes 23 new employees

The University welcomes these new employees who joined Clemson in March and April:

Agricultural Chemical Services: Jane Parkinson, agricultural science assistant.

Agricultural Engineering: Patricia Lanning, visiting instructor.

Athletics: James Davis, head women's basketball coach.

Biological Sciences: Patricia Gowaty, research associate and visiting associate professor; Steven Hill, curator.

Business and Finance: Teresa Morgan, executive support specialist.

Campus Master Planning: Kathleen Wueste, administrative specialist.

Chemical Engineering: Vickie Rampey, clerical specialist.

Chemistry: Sheri Georgieff, administrative specialist.

Computer Center: David Scarborough, data coordinator; Vernon Wiseman, computer operator.

Cooper Library: Lauren

Young, library technician assistant.

Custodial Services: Ethel Johnson and Pauline Parker, custodial workers.

Dropout Prevention Center: Linda Shirley, project administrator.

Edisto Research and Education Center: Rebecca Hitchcock, agricultural science associate; Nathan Martin and Joe Varn, agricultural science assistants.

Extension Administration: Bill Shimel, staff development leader.
Information Systems Development: Jane Joseph, programmer analyst.

Laundry: Anita Burrell, laundry worker.

Parks, Recreation and Tourism Management: Mary Nan Bridges, clerical specialist; Clara Kay, food service supervisor.

Health Insurance Open Enrollment Through May 29

Call the Payroll and Employee Benefits Office
at 656-2000
for more information.

The Clemson University Newsletter is published for the faculty and staff of Clemson University by the Division of University Relations.

University Newsletter Editor Deborah M. Slice
Acting Director, News Services ... Catherine Sams

We welcome your comments and suggestions. Call us at 656-4989 or write us at 103 Fike Center. **DEADLINE** is June 2, noon, for June 10 issue.



IT'S SPRING! -- John Simpson, manager of the University's Swine Research Center, examines a recently born pig as the concerned sow looks on.

Provost Awards given to 25

The University Research Grant Committee has given 25 faculty members \$2,000 Provost Research Awards for 1987-88.

The recipients are:

- **David Barrett**, associate professor of elementary and secondary education, for "Effects of Chronic Undernutrition on the Behavior of Preschool Children in South Carolina."

- **Reda Bata**, assistant professor of engineering, for "Butanol in Gasoline: An Improved Fuel for the Internal Combustion Engine."

- **Carol Bleser**, Lemon Professor of U.S. History, for "Southern Marriages in an Era of Crisis and Change, 1850-1880."

- **Christopher Cox**, assistant professor of mathematical sciences, for "Aircraft Design by Supercomputers."

- **Barbara Dickson-Parnell**, assistant professor of psychology, for "Assessment of Appearance and Personality Perceptions Associated With

Weight Loss in Children."

- **Kilian Dill**, associate professor of chemistry, for "Phosphorus-31 and Carbon-13 Nuclear Magnetic Resonance Studies of the Reaction of Mustards with DNA."

- **Robert Fjeld**, associate professor of environmental systems engineering, for "Preliminary Survey of the Indoor Radon Hazard in Pickens and Oconee Counties."

- **H. Willingham Graben**, professor of physics and astronomy, for "New Fluctuation Formulas in the Kinetic Theory of Matter."

- **Carl Lane**, professor of forestry, for "Testing Redwood (Sequoia Sempervirens) Seed Sources for Forestry Purposes in Piedmont South Carolina."

- **Lyndon Larcom**, professor of physics and microbiology, for "An Assay for Cancer Susceptibility."

- **William Lasser**, assistant professor of political science, for "Roosevelt's 'Court-Packing' Plan of 1937 and Asquith's 'House of Lords-

Packing' Plan of 1911: A Comparative Case Study."

- **William Leonard**, professor of elementary and secondary education, for "Questions in Narrative of Science Text: Do They Make a Difference in Learning?"

- **Thomas McInnis**, associate professor of botany, for "The Potential of the Fungus *Hirsutella Rhossiliensis* for Biological Control of Ring Nematodes."

- **Charles McKelvey**, assistant professor of sociology, for "A Reconstruction of Marx's Sociology of Knowledge."

- **James Miller**, associate professor of history, for "Regional Development in the Valley of the Draa, Morocco."

- **Amod Ogale**, assistant professor of chemical engineering, for "High Temperature Processing of Fiber-Reinforced Plastics."

- **Richard Rice**, associate professor of chemical engineering, for "Removal of Sulfur Dioxide From Flue Gas by Sorbent Injection."

- **Victor Rudowski**, associate professor of English, for "An Assessment of the Historical Accuracy of Novels and Shorter Fiction Depicting the Holocaust Catastrophe That Occurred During World War II."

- **William Stringer**, associate professor of agronomy and soils, for "Effect of Presence of Endophytic Fungus on Fate of Tall Fescue Plants Under Grazing by Cattle."

- **D.J. Undersander**, associate professor of agronomy and soils, for "Interspecies Competition Between an Overseeded Winter Annual and Bermudagrass."

- **Christopher Vaughan**, associate professor of bioengineering, for "Validating the Success of Neurosurgery on Spastic Cerebral Palsy Children."

- **Ting Wang**, assistant professor of mechanical engineering, for "The Effect of Turbulent Flow on Fiber Dispersion During Web-Forming Process in Textile Industry."

(Continued on next page.)

Departmental notes

Aquaculture, Fisheries and Wildlife

F.A. Busch (Wildlife Biologist, Grad Asst) and **D.C. Guynn** (Prof, forestry) presented "Characteristics and Attitudes of Deer Hunting Lessees in South Carolina and Mississippi" at the 10th annual meeting of the Southeastern Deer Study Group in Alabama.

Also at the meeting, **T. Fendley** (Assoc Prof), **T. Swaynham** (Grad Asst), **D.A. Shipes** and **L. Rogers** (SCWMRD) presented "Breeding Chronology of White-tailed Deer on Webb Wildlife Center, Hampton County, S.C."

R. Slack (Grad Asst) presented "Distribution of Spawning Blueback Herring After Rediversion" at the 11th annual meeting of the S.C. Fisheries Workers Association in Charleston.

Biology

D.R. Helms (Biology Program Director) and **W. Surver** (Assoc Prof) presented "Lecture Enhancement" and "Biology in the Laboratory" to teachers of the New Jersey state college system during its curriculum enhancement workshop in April.

Helms, Surver, J. Dickey (Asst Prof), **M. Ruppert** (Asst Prof) and **S. Miller** (Adj Assoc Prof) participated in reunion meetings of the Biology and Life Science Institutes of the National Science Foundation held in conjunction with the S.C. Academy of Science meetings in Columbia in April. On the same day, **Helms** participated in Governor **Carroll Campbell's** ceremonial signing of the proclamation of April 5-11 as S.C. Science Week.

Surver coordinated the annual meeting of the S.C. Junior Academy of Science in Columbia in April. He has been named chairman of a national task force on needs assessment for the National

Association of Academies of Science.

R. Kosinski (Asst Prof) and **S. Aneja** (Instr) were judges at the Junior Academy of Science meeting.

All Biology Program faculty and staff participated in the eighth annual Clemson University Biology Merit Exam program in April.

Chemistry

D.D. DesMarteau (Prof and Head):

- presented "Recent Developments in Novel Fluorochemicals" at Anaquest in Murray Hill, N.J., in April. Anaquest is a division of British Oxygen Corp., the leading producer of fluorinated inhalation anesthetics.

- and **C.W. Bauknight Jr.** (Grad Stu) published "The Microwave Spectrum, Harmonic Force Field, and Structure of N-Chlorodifluoromethylenimine, $CF_2=NC_1$ " in *Journal of Molecular Spectroscopy*. The research was done in collaboration with **W.D. Anderson** and **M.C.L. Gerry** (Univ of British Columbia).

- published "Gasphasen-Reaktionen, 59[1,2]. Die Pyrolysen von Trifluormethylazid und Hexafluorazomethan" in *Z. Naturforsch* in collaboration with **H. Bock** and **R. Dammel** (Chemische Institute der Universität Frankfurt).

- talked about Clemson's research results on fluorinated sulfonimides as electrolytes for fuel cells at the annual Gas Research Institute Contractors meeting in Chicago in April.

- attended the second meeting of the EPA Panel on Alternatives to Current Chlorofluorocarbons in Yountsville, Calif., in April.

Elementary and Secondary Education

V.B. Stanley (Assoc Prof) served as spelling consultant for the Beaufort School District Academic Challenge Pro-

gram. **Stanley** also conducted workshops on "Holistic Scoring" for English and social studies teachers in Spartanburg School District 5.

G.F. Elrod (Vstg Asst Prof) presented "Career Assessment for the Mildly Handicapped Adolescent: An Often Overlooked Assessment Dimension" at the 65th annual convention of the Council for Exceptional Children in Chicago in April.

R.D. Hefley (Asst Prof) published "Coaching the Gifted Athlete" in *Athletic Journal* and presented "An Examination of College Students' Participation in Physical Fitness and Leisure Activities" at the national convention of the American Alliance of Health, Physical Education, Recreation and Dance in Las Vegas.

W. Leonard (Prof) presented "A Comparison of Student Performance by Interactive Videodisc Versus Conventional Laboratory" and "Review of Cognitive Development in Biology" at the National Association for Research in Science Teaching meeting in Washington, D.C.

Leonard has been selected as the representative of the National Association of Biology Teachers for the Committee on Liberal Education and the Sciences, sponsored by the American Association for the Advancement of Science and the Carnegie Foundation.

W.W. Pennscott (Prof), **F. Ingle** (Grad Stu), and **C. Sinnamon** (former Grad Stu) presented "Uses of the Student Developmental Task Inventory in Student Affairs" at the spring conference of the S.C. College Personnel Association in Columbia.

Extension Home Economics

R.J. Davis (Prof) conducted a two-day workshop on "Better Eating for Better Health" for American Red Cross instructors and instructor-trainers in Raleigh, N.C. **Davis** also accepted for the Extension Service a "Good Neighbor Award" from the central South Carolina chapter of the American Red Cross.

Forestry

B.M. Sanders (Grad Asst) and **D.H. Van Lear** (Bowen Prof) published "Pre- and Post-Burn Photo Series for Pine Hardwood Logging Slash in the Southern Appalachians" in the proceedings of the Ninth Conference on Fire and Forest

Provost Awards, continued

- Glen Weiser**, assistant professor of agronomy and soils, for "Columbia Lance Nematode Tolerance in Soybean: A Way to Improve Soybean Production Efficiency."

- Curtis Weller**, assistant professor of agricultural engineering,

for "Edible Films from Maize and Soybeans."

- Gene Wood**, professor of forestry, for "Ecology of the Southern Fox Squirrel in South Carolina: Aspects of Reproductive Physiology."

Meteorology in San Diego, Calif.

"Soil Erosion in Response to High Intensity Broadcast Burning in the Southern Appalachians," by Van Lear and S.J. Danielovich (former Grad Asst) was judged "best paper" in one of the divisions of the Soil Science Society of America's annual meeting in 1986.

L.M. Haugen (Grad Asst) and F.H. Painter (Prof) published "Immunoassay" in Journal of Forestry.

D.C. Guynn Jr. (Prof) and F.A. Busch (Grad Asst) published "Hunting Leases for Income and Access Control" in Forest Farmer Manual.

R.L. Hedden (Prof), J.E. de Steiguer and J.M. Pye (U.S. Forest Service) published "Optimal Level of Expenditure to Control the Southern Pine Beetle" as the USDA Forest Service Southeastern Forest Experimentation Station Research Paper SE-263.

S.M. Jones (Ag Science Assoc) and L.A. Churchill (former Grad Asst) published "The Use of Vegetation in Assessing Site Potential Within the Upper Coastal Plain of South Carolina" in Castanea.

Jones also published "Shortia: Solving One Mystery" in Tipularia.

D.D. Hook (Prof) published "Variation in Growth of Red Adler Families in Relation to Shallow Water Table Levels" in Forest Science.

R. Zahner (Prof) published "Evaluating Drought Impacts on the Growth of Southern Pine Forests" in a technical bulletin (No. 523) of the National Council of the Paper Industry for Air and Stream Improvement.

History

J.L. Arbena (Prof) reviewed Sullivan's The Vietnam War: A Study in the Making of American Policy in Teaching History: A Journal of Methods.

R.M. Golden (Prof) presented "Religious Intolerance and the Revocation of the Edict of Nantes" at the University of South Carolina's 17th Century Seminar in April.

Horticulture

A.R. Mazur (Prof) gave an invited paper, "The Influence of Plant Growth Regulators on the Emergence of Hybrid Bermudagrass on Overseeded Putting Greens," at the Southeastern Golf Course Superintendents Conference in Tifton, Ga., in April.

A.R. Klingman (Assoc Prof)

presented "Conservation of Natural Beauty: People-Plant Interactions" at a meeting of the Garden Club of America at Riverbanks Zoo in Columbia in April. Kingman also conducted workshop sessions, "Landscaping in Your Communities: Beauty and Enhancement" and "Replacement Choices," for the Governor's Annual Conference on Community Improvement in Columbia in April.

A.J. Pertuit Jr. (Assoc Prof) and J.W. Kelly (Asst Prof) published "Timing of a Lighting Period for Easter Lily Bulbs Prior to Forcing" in HortScience.

J.M. Higgins (Grad Research Asst), L.B. McCarty (former Grad Research Asst), T. Whitwell (Assoc Prof) and L.C. Miller (Prof) published "Bentgrass and Bermudagrass Putting Green Turf Tolerance to Postemergence Herbicides" in HortScience.

M.G. Hamilton (Assoc Prof) and R.A. Baumgardner (Prof) worked with USDA researchers on the article, "Southern Delite' Sweet Potato," published in HortScience.

Housing

Corine Galloway, who has been with the Housing Office since November 1979, was named Custodian of the Month for February. Lula Freeman was named Custodian of the Month for March. She has been with Housing since August 1983.

Industrial Engineering

W.J. Kennedy Jr. (Prof) presented "A Systematic Approach to Choosing Horizontal Transportation Equipment" at the IIE/MHI material handling seminars in Baltimore, Md., and Phoenix, Ariz., in March.

C.R. Lindenmeyer (Prof) presented "PARATEC: Clemson University's I.E. Student Field Project Program" to the central South Carolina chapter of the Institute of Industrial Engineers in Columbia in April.

J.A. Blessing (Grad Stu) received the 1987 Institute of Industrial Engineers Graduate Research Award.

Languages

P.W. Wannamaker (Assoc Prof) co-presented "Land Grant University Curriculum Model Which Combines the Technical and Humanistic Elements of an Undergraduate Education Into a Meaningful Whole" at the Conference on Languages and Communication for World

Business and the Professions at Eastern Michigan University in May.

S.E. Torres (Asst Prof, Spanish):

- reviewed R.H. Viveros' Una mujer canta amorosamente in Circulo: Revista de Cultura.

- published "Martin Recuerda's Caballos desbocaos and the Quality of Life in Post-Franco Spain" in Hispanic Journal.

- presented "New Critical Vision in Martin Recuerda's Recent Dramaturgy" at the Florida State University Comparative Literature and Film Conference in January. At the meeting, Torres also chaired a session, "The Hispanic World: Spain."

- published "Preparing for the Oral Section of the Advanced Placement Exam" in APROPOS.

- published "General Guide to Approaching Literature in High School: The Novel and the Theater" in Crescent.

- reviewed R.P. de Ayala's El ombligo del mundo in Revista de Estudios Hispánicos.

- published "Jose Martin Recuerda's Caballos desbocaos: A Carnavalesque Celebration of Recent Spain" in MIFLC Proceedings.

Marketing

J.J. McClung (Asst Prof) was presented the Valley Forge Honor Certificate for excellence in economic education by the Atlanta chapter of the Freedoms Foundation at Valley Forge.

McClung presented results of the Small Business Needs Assessment Survey to the state and area directors of the S.C. Small Business Development Center at the regional meeting here in April.

Management

W.H. Hendrix (Prof) and R.P. Steel (Air Force Institute of Technology) had "Effect of Attendance, Motivation, Organizational Commitment and Intent to Remain on Absenteeism" accepted for presentation at the National American Psychological Association meeting in New York in August.

Mechanical Engineering

D.E. Beasley (Asst Prof) was session chairman for "Innovative Concepts and Economic Evaluations of Solar Systems" at the ASME-JSME-JSES Solar Energy Conference in Honolulu in March.

R. Kumar (Asst Prof) chaired ses-

(Continued on next page.)

notes, cont.

sions on natural convection in enclosures at the ASME/JSME Thermal Engineering Conference in Honolulu in March. There, he presented "Numerical Study of Natural Convection in a Horizontal Annulus With Constant Heat Flux on the Inner Wall" and "Experimental Investigation of Natural Convection From a Horizontal Disk," written by **J.A. Liburdy** (Prof), **R.L. Dorroh** (former Grad Asst) and **S. Bahl** (Grad Asst), and he attended the International Symposium on Cooling Technology for Electric Equipment.

Kumar also published "Numerical Investigation of Variable Property Effects on Laminar Natural Convection of Gases Between Two Horizontal Isothermal Concentric Cylinders," written with **D.N. Mahony** (former Grad Asst) and **E.H. Bishop** (Prof), in Journal of Heat Transfer.

J.M. Kennedy (Asst Prof) presented "Analysis of the Picture Frame In-Plane Shear Test for Composite Materials," written by **G.L. Farley** (Army Aerostructures Directorate) and **T.R. Barnett** (Grad Asst), at the 28th Structures, Structural Dynamics and Materials Conference in Monterey, Calif.

F.W. Paul (Prof) and **E. Torgerson** (Grad Asst) presented "Vision-Guided Robotics Fabric Handling for Apparel Manufacturing" at the IEEE Robotics and Automation Conference.

Paul is the general organizing chairman of the 1988 USA-Japan Symposium on Flexible Automation.

Music

R.E. Goodstein (Asst Prof) directed the United Way Honors Orchestra and the Herald Trumpets at "An Evening at the Kennedy Center," hosted by Gregory Peck, Judy Woodruff and Richard Thomas in commemoration of the centennial of the United Way.

Nursing

D.R. Moore (Media Resources Coordinator) was inducted into the Clemson chapter of Phi Delta Kappa, a professional education fraternity.

Parks, Recreation and Tourism Management

F.A. McGuire (Assoc Prof) and **F.D. Dottavio** (Adj Prof) published "Outdoor Recreation Across the Lifespan: Abandonment, Continuity or Liberation?"

in International Journal of Aging and Human Development.

McGuire and **R. MacNeil**, **M. Teague** (Univ of Iowa) and **J. O'Leary** (Purdue Univ) published "Older Americans and Outdoor Recreation: A Literature Synthesis" in Therapeutic Recreation Journal.

L.W. Gahan (Alum Prof) was named vice president of the Carolinas chapter of Meeting Planners International.

Physics and Astronomy

J.R. Ray (Prof) presented a seminar on "Formation of Amorphous Silicon by Molecular Dynamics" at N.C. State University.

R.C. Turner (Prof) was an invited speaker on "Physics and Toys" for the Science for a Day program for academically gifted students of Cleveland County in North Carolina. Turner also presented a talk on "Electron Spin Resonance in Polymers" at the Celanese Research Lab in Charlotte, N.C.

J.A. Gilreath (Assoc Prof) presented a colloquium, "Computers in the Laboratories at Clemson," to the physics department of Montana State University in April. Gilreath and **G.F. Wheeler** (Univ of Montana) gave a demonstration at the Montana Academy of Science meeting at Eastern Montana College in April.

Plant Pathology and Physiology

J.P. Krausz (former Assoc Prof) and **J.D. Caldwell** (Asst Prof, horticulture) published "Cylindrocladium Root Rot of Kiwifruit" in Plant Disease.

W.D. Goff (former Grad Research Asst), **C.E. Drye** (Assoc Prof) and **R.W. Miller** (Prof) published "Ecology and Epidemiology of Pecan Downy Spot" in Phytopathology.

Political Science

M. Stann (Prof):
 • published The American Republic: Politics, Institutions and Policies with **C.M. Relenius** (Penn State Univ) and **D.M. Billeaux** (Oklahoma State Univ).
 • was a discussant at the S.C. Political Science Association's annual meeting for a panel, "Religion in Politics."
 • published "James Earl Carter" with **R.W. Leeman** (Instr, Speech) in American Orators of the Twentieth Century: Critical Studies and Sources.

Poultry Science

The following papers were presented

at the annual Southern Poultry Science Society meeting in Atlanta:

- "In vitro Sperm Host Gland Filling" by **G.P. Birrenkott** (Assoc Prof), written with **S.R. Nash** (Pasteur Institute) and **M.E. Wiggins** (Research Specialist). Birrenkott also chaired a physiology section.

- "Yields of Squab (*Columba*, spp.) During Processing" by **J.A. Souther**, written with **M.A. Hall** (Asst Prof).

- "Comparison of Single Versus Multiple Dietary Regimen for Broilers" by **K.T. Hsu** (Grad Research Asst), written with **J.E. Jones** (Prof) and **D.V. Maurice** (Assoc Prof).

- "Effect of Force-Feeding on Plasma Glycerol in Female Broilers" by **J.F. Rhoades** (Grad Research Asst), written with Maurice.

- "Effect of Minimum Ventilation on Energy Use During Broiler Brooding" by **J.D. Simmons** (Mississippi State), written with **W.H. Allen** (Prof, agricultural engineering) and **B.L. Hughes** (Prof).

- "Response of Broiler Chicks to Excess Dietary Iron" by **S. Sooncharernying** (Grad Research Asst), written with Maurice.

D.J. Castaldo (Grad Research Asst) judged the biology and general science sections at the Greenville Senior High School science fair in March.

Castaldo and Maurice submitted "Phospholipid Content of the Chicken Shell Gland and its Relationship to Egg Shell Strength" to the manuscript award competition conducted by the Poultry Science Association.

P.A. Skewes (Asst Prof) coordinated the S.C. Housing and Ventilation Seminar in Columbia in March.

The following people participated in the annual meeting of the Federation of American Societies of Experimental Biology in Washington, D.C.:

- **D.V. Maurice**, as program chairman, raised \$8,400 to organize the American Institute of Nutrition's Poultry Nutrition Conference.

Maurice also has been invited to serve on the Experimental Animal Nutrition Committee of the AIN.

- **J.F. Rhoades** and Maurice presented "Effects of Feeding Patterns on Plasma Glycerol Concentration in Chickens and Japanese Quail."

- **J. Bricker** (Research Assoc), **T. Pharr** (Grad Research Asst), **J. Sallin** (Grad Research Assoc) and **B. Glick** (Prof and Head) presented posters.

Professional Development

R. Elliott (Prof and Director):

- presented "Product Development: Finding Your Competitive Niche and Serving It" at a meeting of the West Virginia College and University Continuing and Community Education Association in Wheeling, W.Va.
- presented "Achieving Excellence in the Marketing of Educational Programs" at a meeting of the Louisiana Health Education and Training Society.
- has had "How To Increase Registrations Through Multiple Mailings" accepted for publication by the Learning Resources Network of Kansas.
- published "How To Choose Courses to Present" in Adult and Continuing Education Today.

Psychology

The following papers were presented at the annual meeting of the Southeastern Psychological Association in Atlanta:

- "Masculinity, Femininity and Sex Differences in Carrying Styles" by **T.R. Alley** (Asst Prof) and **J. Kilker** (Student).
- "Effects of Quantified Instructions for Reasonable Doubt: Upper Limits and Reactance" by **F.C. Dane** (Assoc Prof) and **M. Copenhagen** (Student).
- "Relaxation Training as a Treatment for the Premenstrual Syndrome" by **B. Dickson-Parnell** (Asst Prof) and **L. Jackson** (Student).
- "Gender Differences in Spatial Orientation Using Two Simulated Visual Displays" by **E.H. Galluscio** (Prof and Head).
- "The Effect of Activated Sleep Deprivation Upon the Play Behavior of Juvenile Rats" by **P.A. Knowles** (Vstg Asst Prof).
- "Age Differences in Adolescent Girls' Relationships With Their Parents" by **D. Moore** (Asst Prof), **N.R. Schultz** (Assoc Prof) and **P. Mulkeen** (Student).
- "Locus of Control, Body Consciousness and Gender: Relations to Biofeedback and Autogenic Relaxation Training" by **Schultz, Moore, J. Shealy** (Univ of South Florida), **E. Brainerd** (Assoc Prof) and **L. Park** (Assoc Prof).
- "The Distribution of System Responses as It Related to the User's Perception of Computer System Response Time" by **R. Nowaczyk** (Assoc Prof) and **L.S. Shealy** (Student).
- "Predicting Dropout From Outpatient

Treatment" by **J. Williams** (Asst Prof), **N.E. Noel** and **R.H. Longbaugh** (Brown Univ) and **M. Beattie** (Butler Hospital).

At the same conference, **Alley** and **Dane** chaired sessions on social psychology and **P.A. Connor-Greene** (Asst Prof) chaired a session on psychopathology.

Connor-Greene conducted a two-day training workshop for psychologists and psychiatrists on "Assessment and Treatment of Anorexia Nervosa and Bulimia" in Nashville, Tenn., sponsored by **Dede Wallace Mental Health Services**.

B. Musick (Student) won the Student Research Award for "The Effects of Race in the Social Comparison Process: The Dead Grandmother Caper."

The following papers were presented at the biennial meeting of the Society for Research in Child Development in Baltimore, Md., in April:

- "Aesthetic Perception by Infants: Research Methods, Findings and Implications" by **Alley**.
- "Parent-Adolescent Relationships: Adolescents' Prospective Views of Attachment and Autonomy" by **Moore, Schultz** and **P. Mulkeen** (Student).
- "Age Differences in the Use of Multiple Standards to Evaluate Comprehension" by **Moore** and **K. Zabrocky** (Georgia State Univ).

Sociology

B.J. Vander Mey (Asst Prof)

conducted a workshop on the state of knowledge in the area of sexual abuse of boys at the annual meeting of the S.C. Council on Family Relations. At the meeting, she was named a member of the council's executive board. She also presented "The Sexual Victimization of Male Children: A Critical Review" at the First European Congress on Child Abuse and Neglect in Greece.

Student Development

J. Smith (Director) has been elected secretary of the S.C. College Personnel Association, a division of the American College Personnel Association.

Textiles

B.C. Goswami (Prof) visited the Cotton Technological Research Laboratory in Bombay, India, in February and March to plan a research project on the "Relationship Between the Morphology and Fine Structure and the Tensile Properties of Cotton Fibers," funded by the

U.S. Department of Agriculture's cooperative research program with India. He also visited the Indian Institute of Technology in New Delhi to review a project on the development of yarn and fabric structures for better comfort with air-textured cotton/synthetic fiber blends. **Goswami** lectured on torsional fatigue behavior of fibers and the mechanics of blended yarns and processing of non-woven fabrics while visiting the China Textile University in Shanghai, the Northwest Institute of Textile Science and Technology in Xian and the Beijing Institute of Chemical Fiber Technology.

Undergraduate Studies

The colleges of Liberal Arts and Sciences' summer sessions have been awarded \$138,476 by the S.C. Department of Education to provide Advanced Placement education in calculus, European history, Spanish, American history, English, biology for experienced teachers, computer science and physics. More than 200 state teachers will participate.

J.V. Reel Jr. (Vice Provost) has been named chair of the Tri-County Technical College advisory board to the College Parallel Program for 1987-88.

University Union

R. Laffitte (Asst Union Director) presented three educational sessions at the National Association for Campus Activities conference in Nashville, Tenn. The sessions were titled "The Advantages and Disadvantages of Working With a Concert Promoter," "Producing a Major Concert for the First Time" and "Program Planning: The Essential Steps." **Laffitte** is chairman of the NACA's Contemporary Programs Committee.

Visual Studies

S. Wang (Prof) published a silver gelatin print in "Commitment to Vision," a catalogue of works exhibited in the Photography of Oregon Gallery Museum of Art at the University of Oregon.

**The Faculty Senate's
next meeting is June 9
at 3:30 p.m. in the
Senate Chambers.
All faculty members are
invited to attend.**

Region offers inexpensive vacation options

by Ron Barnett

Myrtle Beach, Hilton Head and Charleston rank as the three favorite resorts for South Carolinians, but the state also offers some less expensive vacation spots and recreational activities.

Many vacationers are unaware of the variety of attractions they pass on their way to the coast, says Dick Howell, associate professor of travel and tourism for the department of parks, recreation and tourism management.

"In all areas of the state there are opportunities at state and county parks, museums, plantations and gardens for low-to-moderate cost recreation," he said.

"Most South Carolinians have seen or visited only a few of these sites."

The most economical way to spend a six-day/five-night vacation is camping, Howell said.

Based on the maximum camping fees charged in state parks, such an excursion should cost around \$168 plus recreational and vehicular expenses. That figure includes food and beverages.

But for some, a few short trips throughout the year might be the best way to keep the workday blues from gaining a foothold.

South Carolina now holds 286 festivals that offer a variety of attractions.

The most popular is Spoleto Festival U.S.A. in Charleston, which this year began May 22 and will end June 7 with a concert and fireworks finale at Middleton Place Gardens. Admission prices range from \$5 to \$75 for performances, but most events at Piccolo Spoleto, which features local talent, are free.

Freedom Weekend Aloft, the largest hot-air balloon festival east of the Mississippi, is a big attraction for the Greenville area. A small admission fee is charged on a per-car basis for the colorful aerial spectacular, set for

July 2-5 this year at the Donaldson Center.

Another popular event is the Sun Fun Festival in Myrtle Beach June 1-7, which will feature a beauty pageant, games, an air show, parades and jazz concerts.

Other festivals are listed in a brochure called "What's Happening in S.C.," available from the S.C. Division of Tourism. Also check regional magazines for events outside the state but within easy driving distance.

Less seasonal opportunities also abound for the budget-minded vacationer.

For starters, a good way to see the Upcountry is to take a drive along the Cherokee Foothills Scenic Highway (S.C. 11). Its 130-mile course winds through the rugged country north of Interstate 85 from the Georgia state line to Gaffney, passing by four state parks and a historic Revolutionary War battlefield.

Day trips to northeast Georgia also offer a variety of attractions.

The Alpine Village at Helen draws tourists with its German food and music, and Tallulah Falls is noted for its lodge, fishing and hiking.

For the more adventurous, the famed rapids of the Chattooga River on the South Carolina-Georgia border near Long Creek offer white-water excitement as well as camping sites and hiking trails nearby.

Short trips into North Carolina -- to the Cherokee Indian Village, the Great Smoky Mountains National Park and Asheville's Biltmore House -- are other popular low-budget travel ideas, especially for Upstate vacationers.

In the Midlands, Columbia's Riverbanks Zoo features more than 700 exotic birds and mammals in surroundings designed to resemble their natural habitats.

For more information on tourism statewide, write to the S.C. Division of Tourism, P.O. Box 71, Columbia, S.C. 29202.

For details on vacation opportunities in the Upstate, write to the

Discover Upcountry Carolina Association, P.O. Box 3132, Greenville, S.C. 29602, or the Pendleton District Historical and Recreational Commission, 125 E. Queen St., P.O. Box 234, Pendleton, S.C. 29670.

Ag economist wins award for research

Agricultural economics Professor Mark Henry has received the first W.C. Godley Award for Excellence in Agricultural Research.

Henry is one of the country's foremost researchers in the area of rural economic development and regional analysis.

The award is named for Cecil Godley, who retired in June 1986 after 40 years with Clemson. During the last 11 years of service, he was director of the Agricultural Experiment Station.

Union offers short courses

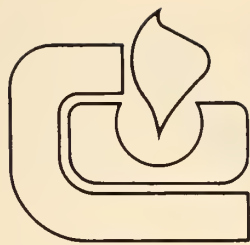
There still is time to sign up for seven summer short courses offered by the University Union.

The courses that have not started already are speed reading (Tuesdays and Wednesdays in July), two classes in scuba diving (various days, May 25-June 14 and July 6-26), wine seminar (June 15 and 17), calligraphy (Wednesdays, July 15-Aug. 5), bartending (June 1) and windsurfing (June 4, 6 and 7).

Call the Union at 656-2461 for more information.

**Football ticket deadline
May 29**

Call 656-2118 for details.



Events

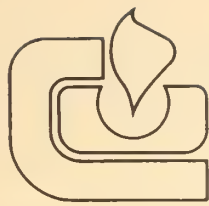
INFORMATION FOR THE FACULTY AND STAFF OF CLEMSON UNIVERSITY

This calendar is prepared up to a month in advance. Please send in writing to the MASTER CALENDAR EDITOR, Trustee House, any campus event that should be listed. You also may call 656-4810 to check the UNIVERSITY MASTER CALENDAR for possible scheduling conflicts. (Call the number listed in each entry for more information.)

May 29 - June 5

- May 30 **Plant Sale.** 9 a.m., Horticultural Gardens parking lot. (Horticulture, 656-3403)
- June 1-5 **Meeting: Range Commanders' Council Documentation Group.** (Computer Science, 656-3444)
- 1-July 1 **Exhibit: Summer Show of Student Art Work.** 9 a.m.-4:30 p.m. weekdays and 2-5 p.m. Sundays, Rudolph E. Lee Gallery, free. (College of Architecture, 656-3081)
- 2-3 **Seminar: Preretirement education for Clemson employees** within 15 years of retirement eligibility. Registration required. (Personnel Division, 656-3367)
- 3-4 **Conference: Apparel Manufacturing.** Ramada Inn. (Professional Development, 656-2200)
- 3-4 **Seminar: Motor Applications and Variable Speed Drives.** Rhodes Hall. (Continuing Engineering Education, 656-2200)

Continuous YMCA-sponsored classes in women's, men's and youth's fitness, aerobics, exercise, Jazzercise, social dancing, Middle Eastern dance, swimming and aquacizing, gymnastics, lifesaving, tennis and after-school day-care and parents' night out programs. (656-2460)



Newsletter

JUN 3 1987

Vol. 26, No. 37

June 3, 1987

Information for the Faculty and Staff of Clemson University

Briefly...

Smith wins Cox award

Drew Smith, a systems programmer at the Computer Center, has been named winner of the 1987 Walter T. Cox Award.

Established in 1985, the award honors University employees who have "contributed to the personal growth and development of students through their support of the University Union."

Smith has worked on the College Bowl Committee for the past six years.

Previous award recipients are architecture Professor Joe Young and ARA Director David DeFratus.

Four receive ACC honors

Four Clemson coaches received Atlantic Coast Conference coach-of-the-year honors in 1986-87.

Women's swimming Coach Bob Boettner is an ACC Coach of the Year for the third time. He led the swim team to its first ACC title this year.

Also named Coach of the Year were Andy Johnston, women's tennis coach; Wade Williams, men's indoor track coach; and Bob Ellis, basketball coach.

Extension gets grant

R.J. Reynolds Tobacco Co. recently gave grants totaling \$32,000 to the College of Agriculture to support research and Extension Service projects.

The gift included funding for training county Extension agents in the tobacco-producing counties and for undergraduate research and Extension apprenticeships.

Vehicle registration begins Aug. 3

Employees limited to two decals

Each faculty and staff member will be able to register only two vehicles for the 1987 academic year, and only one of those vehicles can be parked on campus at any one time.

This new regulation is another effort of the Office of Parking and Vehicle Registration to make it easier for employees to find empty parking spaces near their offices.

Bill Pace, director of parking and vehicle registration, said enforcing this limit will free up some parking spaces by discouraging employees from letting their non-employee spouses or children park the family's second car in employee spaces during the workday.

Each employee who registers one or two cars will pay \$12 and receive one permanent window/bumper decal for each car, but only one removable hang tag for the rearview mirror.

When parked on campus, every car must display a permanent decal and the employee's hang tag, Pace said.

If two employees from one family must park two cars on campus during the workday, each will have to pay \$12 to receive two hang tags.

Employees whose cars don't display both decals and hang tags while parked on campus may receive parking tickets, Pace said.

Other new parking regulations established to increase the number of available spaces include higher fines for violations, a crackdown on habitual offenders and a stricter towing policy.

Vehicle registration for 1987-88 will begin Aug. 3.

For more information, call the parking office at 656-2270. Office hours are now 7:30 a.m.-4:30 p.m.



President Max Lennon, Vice Provost Jerry Reel and Honors Program Director Jack Stevenson hang a painting by Paul Maxwell in the President's office. The painting, titled "Lake Country," was donated to the University by the Austin Fairchild Art Foundation of Dallas. Maxwell lectured here during the President's Honors Colloquium in January.

Departmental notes

Chemistry

R.K. Dieter (Assoc Prof) published a paper on the stereoselective synthesis of unsaturated keytones in The Journal of Organic Chemistry. He also received \$46,000 from the National Science Foundation for his first year of research on "Asymmetric Induction in Organocopper Conjugate Addition Reactions."

J.W. Huffman (Prof) received a \$217,695 grant from the National Institute on Drug Abuse for "Synthesis of Cannabinoids, Analogues and Metabolites."

X. Wang (Grad Stu), **M.E. Kotun** (Technician), **C.B. Blankenship** (former Vstg Instr) and **J.C. Fanning** (Prof) presented "The Synthesis, Characterization and Reactivity of Some Iron (III) Schiff Base Complexes" at the spring meeting of the American Chemical Society in Denver, Colo.

At the same meeting, **G.H. Robinson** (Asst Prof) presented "Reaction of Trimethylaluminum With a Macrocyclic Tetradentate Tertiary Amine."

"The Iron (II)/Iron (III) Ratio in Defense Waste Glass" by **R.T. Hunter** (Grad Stu), **M. Edge** (Undergrad), **K.J. McKinney** (Undergrad), **A. Kallvretenos** (Undergrad) and Fanning was presented at the American Ceramic Society meeting in Pittsburgh in April.

J.D. Peterson (Prof, Assoc Dean):

- presented an invited paper, "Intramolecular Energy and Electron Transfer in Polymetallic Complexes," at the NATO Advanced Research Workshop on Photo-induced Charge Separation and Energy Migration in Supramolecular Species in Italy in April.

- and **D.B. MacQueen** (Grad Stu) presented "Photochemistry of Heterobimetallic Complexes: Intramolecular Energy Transfer in Ligand Bridged Systems" at the annual Chemical Congress at the Royal Society of Chemistry in Great Britain in April.

- presented "Ground and Excited State Interactions in Multi-Metal Systems" with **K.J. Brewer**, **A. Wallace**, **G. Gettliffe** (Grad Students) and **W.R. Murphy** (former Grad Stu) at the International Symposium on the Photochemistry and Photophysics of Coordination Compounds in West Germany in March.

T. Tisue (Assoc Prof) presented an invited lecture, "Trace Element Dynamics in Lake Michigan," at Southeastern

Massachusetts University in April.

Entomology

S.W. Hamilton (Research Assoc/Asst Prof) and **J.B. Soria** (UNAM, Mexico) published "Estudios en Ensectos Acuaticos VI: Cinco Especies Nuevas de Trichopteros de Mexico (Trichoptera: Polycn-tropodidae, Hydroptilidae, Hydropsychidae)" in An. Inst. Biol. Univ. Nal. Auton.

R. Noblet (Prof) presented "Comparison of Vectobac(R) 12AS and Vectobac(R) 24AS for Biological Control of Black Flies" at the joint meeting of the American Mosquito Control Association and the Society of Vector Ecologists in Seattle.

Noblet and **S. Horosko** (Grad Research Assoc) published "Black Fly Control and Suppression of Leucocytozoonosis in Turkeys" in Journal of Agricultural Entomology.

History

T. Kuehn (Assoc Prof) reviewed **Pierre Hurtubise's** Les Salviati in American Historical Review.

Music

R. Goodsteln (Asst Prof/Assoc Director of Bands) published two articles

in the spring issue of Journal of Research in Music Education: "An Introduction for Discriminant Analysis" and "An Investigation Into Leadership Behaviors and Descriptive Characteristics of High School Band Directors in the United States."

Plant Pathology

Several papers were presented at the 1987 Chromatography Conference in Greenville:

- "HPLC Analysis of Benomyl Residues in Soil" by **J. Lawrence** (Ag Science Assoc), **M. Pullen** (Grad Asst), **E.I. Zehr** (Prof) and **G.E. Carter** (Prof).
- "HPLC Separation of Trifluralin and its Metabolites" by **S. Figliola** (Ag Science Assoc) and **N.D. Camper** (Prof).
- "Determination of Residues of the Fungicide, Chlorothalonil, in South Carolina Peach Orchard Soil" by **Pullen**, **M. Riley** (Ag Science Assoc), **Zehr** and **Carter**.
- "Effect of Nematode-Induced Stress on Ethylene Production in Peach Trees" by **Riley** and **Carter**.
- "HPLC Analysis of Diquat From Aquatic Sediments" by **W. Johnson** (Grad Asst) and **Camper**.

Clemson chemists travel to China

Chemistry Professor Rudolph Abramovitch will travel to China this summer to spend a month on a scientific lecture tour.

He received a personal invitation from the Chinese Academy of Sciences to speak to groups at several institutions throughout the country during June. His wife, Dorota, a research associate and associate professor, will accompany him and also will lecture on her research in polymer chemistry and in biochemistry.

Abramovitch's first stop will be at Tsinghua University in Beijing, the host university during his trip. There, he will teach a course in chemistry and lecture on his research in organic chemistry.

Next he will travel to Xian Modern Chemistry Research Institute to speak and then on to Shanghai to lecture at the Institute of Materia Medica and at the Institute of Organic Chemistry.

Abramovitch will conclude his tour lecturing at the University of Hong Kong.

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We welcome your comments and suggestions. Call us at 656-4989 or write us at 103 Fike Center. **DEADLINE is June 9, noon, for June 17 Issue.**

Newsletter

Vol. 26, No. 38

JUN 11 1987

June 10, 1987

Information for the Faculty and Staff of Clemson University



Bennett



Brooks



Campbell



Lawton



Tice

Five alumni receive association's top award

Five outstanding Clemson graduates will be honored this Friday with the Alumni Association's highest tribute, the Distinguished Service Award.

Hundreds of alumni and guests representing 30 classes will return to campus June 11-14 for Reunion Weekend '87.

The Distinguished Service Award will be presented to former IPTAY secretary and assistant athletic director George Bennett of Greenville; entrepreneur Bob Brooks of Fayetteville, Ga.; retired industrialist Bob Campbell of Gaffney; oil company founder and former IPTAY director Winston Lawton of Estill; and textile executive John Tice of Dalton, Ga.

George Bennett

Now completing his first year as athletic director at Furman University, George Bennett got his start in fund raising at Clemson in 1967 as alumni field representative, a position which then included raising money for the Loyalty Fund. He later moved to the athletic department as assistant director for business and then as executive secretary of IPTAY. In 1984 he was named National Athletic Fund Raiser of the Year.

A 1955 graduate, Bennett is a 30-

year consecutive giver to the Loyalty Fund.

Bob Brooks

In the late 1960s, Bob Brooks left his job in food sales and used his \$10,000 savings to start his own company, Eastern Foods Inc. That company, which markets more than 40 types of salad dressings and sauces under the "Naturally Fresh" brand name, has since grown into a \$50-million-a-year business.

Brooks, a 1960 graduate and Founders Society member, has served on President Max Lennon's advisory council, the Capital Gifts Committee and the Clemson Development Council.

Bob Campbell

1937 graduate Bob Campbell became president of Campbell Limestone Co. when his father died in 1940. Forty years later, he retired as vice president of Vulcan Materials, which merged with Campbell Limestone in 1968.

Last summer, Campbell and his wife, Betsy, donated stocks worth more than \$1 million to set up at Clemson the nation's first endowed chair in technical communications. Campbell also has served Clemson as

a member of the Founders Society, the Board of Trustees and the Engineering Advisory Board.

Winston Lawton

After serving in World War II, 1937 graduate Winston Lawton established with his wife, Sarah, a small oil distributorship in Estill. The Lawton Oil Company eventually grew to an operation that today distributes more than six million gallons of products each year.

Lawton has served four years on the State Development Board, one term in the state Senate, two on the Clemson Board of Visitors and 25 as an IPTAY representative.

John Tice

John Tice is the founder, owner and president of Tice Yarns Inc., the nation's leading manufacturer and supplier of carpet yarn. He introduced to the textile industry new techniques for preparing yarn that have become industry standards, and he also introduced machinery from Europe that today is considered state-of-the-art for the U.S. carpet industry.

A 1955 graduate, Tice is an IPTAY representative, an annual IPTAY scholarship donor and a member of the President's Club.

Classified Information

What is the new system of reclassifying positions?

As in the past, reclassification is based on an employee's job duties. If, after proper administrative study and approval, the duties described warrant reclassification, the University Personnel Office and/or state Personnel Division will recommend a reclassification of the job.

The difference is that after July 1, a new procedure will be used to determine which positions are eligible for reclassification. In the past, reclassifications were granted primarily on a "first come, first served" basis. And whenever there was a budget cut, all reclassifications being considered were frozen. For next year, all vice presidents will submit in priority order a list of classified positions most in need of study. These lists will be combined into a University-wide list. By using this method, the reclassification requests with the highest priority will receive the greatest chance of action. If there is a mid-year budget cut, the reclassification list will be treated as a separate budget item and receive its share of any budget reduction, but all reclassifications will not be eliminated.

Classified Information is a question-and-answer column researched and written by Commission on Classified Staff Affairs members.

Clemson gets supercomputers

Two new University supercomputers not only will improve researchers' efforts to solve complex scientific problems, but also will enhance the state's efforts to attract new high-tech industries to South Carolina.

"The fact that we have the systems and the expertise to support them should make the state, and the Upstate in particular, extremely attractive to computer-intensive industries," said Chris Duckenfield, vice provost for computing and information technology.

Supercomputers, which are essential for advanced work in science, engineering and other high-tech areas, can perform more than a hundred million calculations a second.

One of Clemson's supercomputers, a vector processor attached to the mainframe computer, significantly increases the speed at which the computer processes repetitive portions of a program.

The other is a hypercube, a special type of supercomputer that, in Clemson's case, links 16 computers together, allowing them to work simultaneously on one problem.

Clemson, Michigan Tech and Cornell are the first three universities in the country to acquire hypercube computers.

"While vector processors are not uncommon in large research computing facilities, the hypercube is very rare and the two together particularly so," Duckenfield said.

So far, more than 30 research projects using the supercomputer have been conducted.

Future research projects will take advantage of the parallel processing ability of the hypercube to study semiconductor chip design, computer graphics and complicated industrial scheduling problems. The vector processor will be used for molecular structural analysis, crystal behavior and material inventory for nuclear reprocessing plants.

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Acting Director, News Services ... Catherine Sams

We welcome your comments and suggestions. Call us at 656-4989 or write us at 103 Fike Center. **DEADLINE is June 16, noon, for June 24 issue.**

Fike opens door to non-members this summer

Beginning July 1, Fike Recreation Center may be used by non-member University employees who would like to participate in the center's activities only occasionally.

They will be admitted free with a University identification card, but will not have member privileges such as spouse and family use of facilities, court reservations and access to lockers and the equipment room.

Fike memberships, which have increased to \$50 per year for employees, expire June 30.

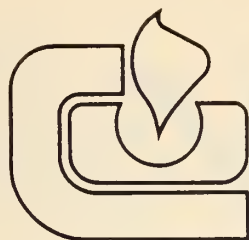
To renew a membership, mail \$50 with a membership form to: Accounts Receivable, Fike Membership Renewal, G-08 Sikes Hall.

Forms and information on joining Fike are available in Room 251, Fike Recreation Center.

Office hours are 8 a.m.-4:30 p.m.

Events

- Through July 1: **Summer Show of Student Artwork.** 9 a.m.-4:30 p.m. weekdays and 2-5 p.m. Sundays, Rudolph E. Lee Gallery. (College of Architecture, 656-3081)
- June 11-14: **Alumni Reunion Weekend.** (Alumni Association, 656-2345)
- June 17-20: **Clemson Players presents two original plays** by Joey Chavez: "Up the Spout Again" and "EZ." 8 p.m., Daniel Annex. Call 656-2476 for ticket information.



Events

INFORMATION FOR THE FACULTY AND STAFF OF CLEMSON UNIVERSITY

This calendar is prepared up to a month in advance. Please send in writing to the MASTER CALENDAR EDITOR, Trustee House, any campus event that should be listed. You also may call 656-4810 to check the UNIVERSITY MASTER CALENDAR for possible scheduling conflicts. (Call the number listed in each entry for more information.)

June 5-12

- Through July 1 **Exhibit: Summer Show of Student Artwork.** 9 a.m.-4:30 p.m. weekdays and 2-5 p.m. Sundays, Rudolph E. Lee Gallery, free. (College of Architecture, 656-3081)
- 8 **Meeting: Professional Secretaries International.** Noon, Golden Corral restaurant. Speaker: Personnel Director Ray Thompson. All secretaries welcome. (656-2249)
- 9-10 **Conference: Package Dyeing.** Ramada Inn. (Professional Development, 656-2200)
- 11 **Alumni National Council luncheon and meeting.** Clemson House and Alumni Center. (Alumni Association, 656-2345)
- 11-14 **Alumni Reunion Weekend.** (Alumni Association, 656-2345)

Continuous YMCA-sponsored classes in women's, men's and youth's fitness, aerobics, exercise, Jazzercise, social dancing, Middle Eastern dance, swimming and aquacizing, gymnastics, lifesaving, tennis and after-school day-care and parents' night out programs. (656-2460)

JUN 17 1987

Briefly..

Project to improve health

Clemson is one of four state colleges pooling resources to study and improve rural health in South Carolina.

Clemson, Winthrop College, S.C. State College and the Medical University of South Carolina are embarking on a four-year agromedicine program made possible by a \$787,000 grant from the W.K. Kellogg Foundation.

The grant will enable teams of graduate students to conduct field studies on the special health problems associated with agriculture in rural communities.

Society gives awards

Several agricultural honors and awards were presented to faculty members recently by the Clemson chapter of Gamma Sigma Delta national agriculture honor society.

The W.C. Godley award, which honors the former director of the S.C. Agricultural Experiment Station, was presented to Mark Henry, professor of agricultural economics.

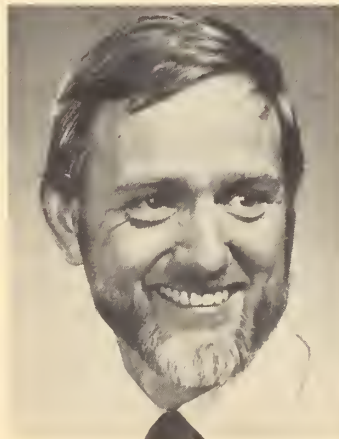
Animal science Professor George Skelley was named Outstanding Teacher.

Six faculty members were inducted into Gamma Sigma Delta: Peter Adler, entomology; Richard Brown, agricultural chemical services; Charles Drye, plant pathology; John Collier, agricultural engineering; Thomas Jenkins, animal science; and Francis Wolak, agricultural engineering.

Eight seniors, 21 graduate students and three alumni also were inducted.

Nichols named first head of performing arts department

Richard Nichols has been named head of the University's newly created performing arts department.



Nichols

He will begin here July 1.

Nichols comes to Clemson from Rochester Institute of Technology, where he was chairman of the performing arts department at the National Technical Institute for the Deaf.

He holds a Ph.D. in theater from the University of Washington and has 22 years' experience in teaching and academic theater production and administration.

The establishment of a performing arts department at Clemson recently was approved by the Commission on Higher Education.

The new department consists of the combined faculties of the departments of music, drama and speech.

Governor okays taking sick leave for family care

University employees now may use sick leave instead of annual leave if they miss work while caring for sick family members.

Gov. Carroll Campbell revised the Sick Leave Act to allow state employees to use sick leave not more than five days annually to care for ill members of their immediate families.

An employee's "immediate family" includes his or her spouse and children.

The amendment was effective

May 1. Employees who have taken annual leave to stay at home with a sick spouse or child since May 1 may request that the time taken be changed to sick leave.

On each department's computerized leave record, days taken off to care for family members must be indicated as such under the "comments" column.

For more information, call Pat Collins or Elaine Hallums in the Personnel Division, 656-2426.

Events

- June 17-20: **Clemson Players presentations: "Up the Spout Again" and "EZ."** 8 p.m.; Daniel Annex. (656-2476)
- Through July 31: **Summer Show of Student Artwork.** Rudolph E. Lee Gallery. (College of Architecture, 656-3081)

Luncheon honors Staff Commission

A luncheon to honor the Commission on Classified Staff Affairs, especially the four members whose terms will end this month and the four successors, was held June 2.

President Max Lennon was the guest speaker at the luncheon, which was sponsored by the Personnel Division.

Lennon thanked the group for a

job well done and emphasized that every employee in every department can make significant contributions to Clemson's progress as an outstanding teaching, research and public service institution.

"No position at Clemson is any more or any less important than another," he said.

"It's impossible to thank you

enough for who you are and for whom you represent."

Lennon and Personnel Director Ray Thompson presented plaques to the four who are ending their service: Paul Gable, director of Extension management services; Tom Kasperek, instrument technician in the electrical and computer engineering department; Martin Fowler, lab technician in the department of biological sciences; and Mary Ann Eddy, administrative assistant in the Energy Research and Development Center.

Eddy will continue participating in the commission's monthly meetings as the ex-officio recorder.

The four new members, who will serve through 1990, are Mary Harve executive support specialist for the 4-H program; John Clemens, business manager for the College of Forest and Recreation Resources; Dixie Schmittou, administrative specialist in the College of Commerce and Industry dean's office; and Betty Hubbard, Computer Center operations manager.

New officers will be elected July 14 at the commission's first meeting of fiscal year 1987-88.



President Lennon and Personnel Director Ray Thompson (front row) honored the four Staff Commission members who are ending their terms this month: (from left to right) Paul Gable, Martin Fowler, Mary Ann Eddy and Tom Kasperek.

Commission chair summarizes year's activities

An annual report on this year's activities of the Commission on Classified Staff Affairs recently was presented to the President's Cabinet by commission Chairman Pat Padgett.

"The major charge to the commission is to advise the President and his cabinet and council of classified staff concerns," said Padgett in the report.

"The work this year, I believe, illustrates our commitment to this challenge, and the commission looks forward to another year of opportunities to contribute to the University mission."

During 1986-87, the commission studied or took action on many issues:

- It recommended a University-wide Employee Recognition Program, which was approved by the

President's Cabinet and now is University policy.

- It submitted to the President's Council a position paper on pay increases for classified staff.

- It supported the new Wellness Program.

- It recommended to the administration methods of dealing with the campus parking situation.

- It began reviewing the Personnel Manual and has suggested

changes in employee leave policy.

- It recommended improvements in the Employee Performance Management System.

- It supported the establishment of Edgar's as a faculty/staff dining facility.

- It studied or made recommendations on employee training programs, health insurance, retirement benefits, tuition rates for employees and educational leave opportunities.

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Kathy Ridings presents photographs to Professor Bobby Haygood.

Photographs of Ridings donated to plant clinic

The wife of the late William Ridings, who was a professor and Extension Service plant pathologist, has presented photographs of her husband to the Plant Problem Clinic.

Ridings died in February 1986 after five and a half years of service at Clemson.

Kathy Ridings gave the framed group of photographs to Assistant Professor Bobby Haygood, who succeeded Ridings as manager of the plant pathology and physiology department's diagnostic facility.

Ridings helped establish the Plant Problem Clinic in 1969 to "serve the people of South Carolina by providing more complete and accurate diagnoses of plant problems," including diseases, insect and nematode damage, nutrient deficiencies and chemical injuries.

The clinic, which receives most of its specimens from county Extension agents, relies on the coordinated support of Extension Service and research personnel in diagnosing many of the problems.

Lost items can be claimed at police office

"Lost and found" items now will be stored in one place on campus -- the University police department.

The Union no longer will hold items until they are claimed but will send the items to the police department for safe keeping, said Ina Durham, the Union's information services director.

People who find valuable property may turn it in to either location. The police department is located at the west end of the football stadium.

Certain items should be turned in to where the item originally was issued, Durham said.

"Some things that students and employees use every day have the best chance of a quick return to the owner if the person who finds them turns them in immediately to the most appropriate office."

Durham suggests that dormitory keys be returned to the Housing Office; office keys to the Physical Plant; meal cards to the dining halls; student identification cards to the Student Development Office in Mell Hall; and activities cards to the bursar's office in Sikes Hall.

PLEASE NOTE: The number to call if you have questions about the Newsletter or to submit information for a Newsletter article is now 656-2061. Correspondence should be sent to the Trustee House.

Pepsi is it -- at least until January

To the "classic" Coke lovers of Clemson University who have been up in arms since the Coke machines were rolled out and replaced with Pepsi machines -- be patient; your favorite drink may return in January.

Business Services manager Steve Copeland says the change was made

because the Coca-Cola brand drinks were going up to 55 cents per can. By switching to Pepsi-Cola brand drinks, he could keep the price at 50 cents.

Clemson may renegotiate its contract with Wometco Vending Co. in January to bring back the Coke

machines, Copeland said.

Until then, to satisfy employees who can't bring themselves to switch to Pepsi, classic Cokes will be put in Wometco's generic vending machines in high-traffic buildings such as Sirrine and Tillman halls and the Clemson House.

Players give world premiere

"Up the Spout Again" and the premiere of "EZ" will be presented June 17-20 by the Clemson Players.

Both plays by Atlanta playwright Joey Chavez will be presented at 8 p.m. each night in the Daniel Annex.

This is the second summer in a row Clemson has presented a world premiere.

Drama Professor Tony Evans, who is directing the plays, says presenting original material by up-and-coming playwrights is a valuable function of academic theater.

"Because 'EZ' is a work in progress, the playwright has been

working with us throughout rehearsals," Evans said.

"His presence, the changes that have been incorporated during rehearsals and the opportunity to be present during the creative development of the play have been good experiences for the student actors."

Chavez is an actor as well as a writer and has been cast in a movie about Downs Syndrome titled "Kids Like These," which stars actress Tyne Daley.

Clemson Players productions are free for students, \$1 for faculty and staff members and \$2 for the public. Call 656-2476 to make reservations.

Good eating habits may help prevent cancer

(Note: This column was prepared by Jacqueline Wohn, R.N., a graduate student in the College of Nursing.)

While cancer kills more people today than it did 50 years ago, there is increasing evidence that simple changes in the way we eat and drink can prevent about 35 percent of all cancers.

Vegetables such as broccoli, cauliflower, Brussel sprouts, rutabagas and other members of the mustard family all help prevent cancer of the gastrointestinal tract and colon.

High-fiber foods help speed harmful substances through the digestive tract and help prevent cancer of the colon.

The National Cancer Institute recommends eating five or six servings daily of fiber-rich foods such as whole-grain breads and cereals (oatmeal, bran and rye), fresh fruits and vegetables, popcorn and dried peas and beans.

Eating foods high in vitamin A (beta-carotene) every day can lower the risk of cancer of the larynx and esophagus.

Vegetables such as broccoli, carrots, spinach, sweet potatoes and winter squash, as well as fruits such as cantaloupe, apricots and peaches, are all high in vitamin A.

Whereas these foods tend to decrease the incidence of cancer, some foods appear to increase the risk of certain kinds of the disease and should be eaten less frequently or in smaller amounts.

Eat foods low in fat, such as lean meats, fish, and poultry without the skin. Eat fewer fried foods by baking, steaming, microwaving and roasting them instead.

Cut down on smoked, pickled or highly processed foods. The preservatives added to products such as ham and luncheon meats to maintain color and retard growth of harmful bacteria can change to cancer-causing substances (nitrosamines) in the stomach.

If you do eat these products, look for brands that list vitamin C or ascorbic acid as an ingredient or eat a big helping of a food high in vitamin C (such as broccoli) with them.

Vitamin C helps prevent formation

Foundation ranks in study

In a study of 260 college endowments, the Clemson University Foundation ranks 180 with an endowment worth more than \$22 million.

The foundation's market value in June 1986 was \$22,322,000, an increase of \$5,655,000 since June 1985. In 1986-87, the foundation received more than \$7 million in private donations.

The study was conducted by the National Association of College and University Business Officers and reported on in the May 20, 1987, issue of *The Chronicle of Higher Education*.

Clemson's foundation is a non-profit organization that manages all private donations to the University. Administered by the vice president for institutional advancement, the income from the endowment helps support the University's academic programs.

The NACUBO study listed Harvard University as the institution with the largest endowment. It is worth more than \$3 billion.

of nitrosamines in the body.

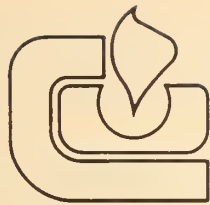
Limit daily alcoholic intake (including beer) to no more than two drinks.

Studies have shown that excessive alcohol consumption increases the risk of cancer of the mouth and esophagus, especially if the person smokes tobacco products.

Lastly, slim down if you are overweight. The risk of cancer increases in people who are overweight by 40 percent or more.

If you are thin, try to maintain your ideal weight. Research has shown that restriction of calories in a nutritionally adequate diet may actually prolong life and retard tumor growth.

So, cook up a defense against cancer and eat well to stay well!



Newsletter

Vol. 26, No. 40

June 24, 1987

Information for the Faculty and Staff of Clemson University

Briefly...

Two employees named outstanding professionals

Sandy Underwood and Sam Dillard recently were named Outstanding Professional Employees by the Office of Business and Finance.

Vice President David Larson presented the awards to the two employees to thank them for jobs well done during the spring semester.

Underwood is a research coordinator for budgets and planning, and Dillard is an engineering associate with the Physical Plant.

G.E. Foundation presents check

The General Electric Foundation recently presented Clemson a check for \$25,150 to match dollar-for-dollar contributions made during 1986 by 154 G.E. employees.

That's more than triple the \$7,162 in Clemson gifts matched by the company for 1985.

On top of its gift-matching, the foundation also made direct grants of \$17,000 to Clemson in 1986.

Pool to be built at Outdoor Laboratory

Groundbreaking for a new swimming facility at the Outdoor Laboratory was held June 21.

Sertoma International, one of several service organizations that sponsor summer camps for disadvantaged and handicapped youth, raised the money for "Project Splash" in less than two years.

Sciences, Nursing get new deans this summer

JUN 24 1987

Clemson announced the names of two new college deans this week.

Opal Hipps will join Clemson Aug. 1 as dean of the College of Nursing, and Bobby Wixson will begin Aug. 17 as dean of the College of Sciences.

Hipps, who was on Clemson's nursing faculty from 1969 to 1979, returns to the University after serving as nursing professor and college dean at Baylor University and at East Tennessee State University.

While at Clemson, Hipps was a member of the Faculty Senate and was one of the four faculty members who developed the baccalaureate program in nursing. She personally developed five nursing courses: Problem Solving in Nursing, Intensive Nursing, Perspectives in Nursing Intervention, Independent Study and The Teaching Role of the Nurse Practitioner.

Hipps received an award for outstanding teaching and service to students from Clemson's nursing class of 1977.

She is a member of the National League for Nursing, the executive committee of the Southern Council on Collegiate Education for Nursing and the American Nurses' Association's Council of Primary Health Care Practitioners and Council of Gerontological Nursing. She also has represented the American Association of Colleges of Nursing on the Tennessee governor's Commission on Nursing.

Hipps received her doctorate in health education administration from the University of South Carolina and her master's and bachelor's degrees from the University of North Carolina.

Wixson is dean of international programs and professor of environmental health at the University of Missouri at Rolla.

As dean, he is responsible for negotiating and administering international technical exchange programs for the university's Center for International Programs and Studies. One of his primary academic interests is the development of international programs in engineering, sciences, arts, education and research.

As a professor of environmental health, Wixson has published several books and more than 40 journal articles on aquatic and industrial pollution control, environmental effects of trace metals and solid and hazardous waste disposal.

While at the University of Missouri, Wixson was the project director for a five-year, \$1 million National Science Foundation study of environmental pollution from lead and other trace metals produced during industrial development. He also was project director for a four-year U.S. Environmental Protection Agency study of coal resources development and disease.

Wixson joined the Missouri faculty as assistant professor in 1967 and was named full professor in 1972 and dean in 1974.

He received the University of Missouri's Alumni Merit Award for Outstanding Service, Teaching and Research and is a five-time winner of the Outstanding Teacher Award.

Wixson earned his doctorate in aquatic biology at Texas A&M University and his master's and bachelor's degrees at Sul Ross State University in Texas.

Benefits office offers payroll-deduction plans

It's not too early to plan for retirement

It may be hard to think about retirement when you're in your twenties and just beginning your career, but Ron Herrin says there's no time like the present to start building a "nest egg."

"Early planning can make a tremendous difference in the size of your retirement income," said Herrin, Clemson's director of payroll and employee benefits programs.

Contributing to a tax-deferred annuity program is one way to save money for later years. Contributions are automatically deducted from your gross income each pay period, deposited into your account and are not taxed until withdrawn.

Herrin provided an example that shows how you can benefit from beginning an account, especially early in your career. The figures are based on a 10 percent annual interest rate.

If at age 22, a person begins contributing \$2,000 per year for only eight years, waits 35 years until she is 65 and then withdraws all the money in her account, she will receive \$666,906.

If another person waits until age 30 to begin contributing \$2,000 a year, contributes for 35 years until he is age 65 and then withdraws his account, he will have only \$562,418. In this example, the person contributed 27 more years than the person in the first example, but ended up with about \$100,000 less.

Staff members in the Payroll and Employee Benefits Office will help any employee contact the representatives of one or more of 14 tax-deferred annuity companies that currently meet the University's enrollment requirements.

"We'll furnish information that will help you decide what type of annuity program will be best for you, but the decision of which company to go with is up to you," Herrin said.

He said a good time to start contrib-

uting to an account is when you have received a promotion, cost-of-living raise or other increase in pay.

"You won't notice the new deduction as easily," he said, "so it will be easier to commit to contributing on a regular basis."

Although it's wise to plan carefully for retirement, you first should make sure you are prepared for the present, Herrin said.

"Everyone needs a savings account for emergencies and should be aware of other important benefits Clemson employees can participate in, such as life and disability insurance

policies," he said.

"It's premature to plan for retirement when you haven't planned for today."

Herrin also suggests that each Clemson employee participate in at least one preretirement seminar, offered several times each year by the Personnel Division and the employee benefits office.

For more information on tax-deferred annuities or on other voluntary deduction programs, call Herrin's office at 656-2000. For details about the preretirement seminars, call Debbie King at 656-3367.

University welcomes new faculty and staff members

The University welcomes these new employees who joined Clemson in April and May:

Agriculture and Natural Resources: Milton Wise, vice president and vice provost.

Bioengineering: Jay Crane, animal care technician.

Communications Center: John Hutchinson, broadcast maintenance technician.

Cooper Library: Teresa Jefferson, librarian.

Edisto Research and Education Center: Raymond Suber, agricultural science associate.

Extension Home Economics: Sara Bagby, assistant director; Julia Black, Helen Lagrone and Georgia Gooden, program

assistants.

Forestry: Virginia Waldrop, agricultural science associate.

Information Systems Development: Clifton James, programmer analyst.

Management: Timothy Summers, assistant professor.

Professional Development: Dorothy Skelton, administrative specialist; Lynn Snipes, key entry and peripheral equipment operator.

Professional Services: Jean Armitage, administrative specialist.

Purchasing: Jimmy Holliday, property and inventory control specialist.

Sandhill Research and Education Center: Miles Smith, agricultural aide.

The Clemson University Newsletter is published for the faculty and staff of Clemson University by the Division of University Relations.

University Newsletter Editor Deborah M. Slice
Acting Director, News Services ... Catherine Sams

We welcome your comments and suggestions. Call us at 656-2061 or write us at the Trustee House. **DEADLINE is June 30, noon, for July 7 issue.**

Departmental notes

Accounting

J.G. Louderback (Prof) and **C.W. McNichols** (Prof, management) received an award from the Greenville chapter of the National Association of Accountants for the best manuscript submitted during the past year.

Agricultural Economics and Rural Sociology

C. Curtis (Asst Prof), **K. Kahl** (Assoc Prof) and **C. McKinnell** (Grad Research Asst) presented:

- "A Comparative Analysis of Optimal Soybean Marketing Strategies of the 1960s and the 1970s" at the NCR-134 Conference in Chicago in April.
- "Risk-Efficient Soybean Marketing: The Contribution of Commodity Options to the Producing Firm" at the Chicago Board of Trade's spring research seminar.
- "Optimal Soybean Marketing Strategies: The South Carolina Case" at the USDA Symposium on Options, Futures and Agricultural Commodity Programs in Washington, D.C., in May.

Kahl discussed "Futures Markets, Options and Farm Products" by P. Fackler at the Agricultural Policy Research Symposium at N.C. State University in May.

G.M. Clary (Asst Prof) was the facilitator at the National Training Workshop on Systems Approaches to Food and Agricultural Problems at N.C. State.

J.C.O. Nyankori (Assoc Prof) and **S.K. Nodine** (Grad Instr, forestry) published "Implications of Restrictions on Imports of Canadian Softwood Lumber to the Southern Softwood Lumber Industry" in The Review of Regional Science.

Animal Science

G. Skelley (Prof) served as a judge at the convention of the Virginia and North and South Carolina Meat Processors groups in Boone, N.C., in May. At the meeting, he presented "Manufacturing of Chunked and Formed Meat Products."

Biological Sciences

E. Josef (Grad Stu) is conducting human malaria research at the Walter Reed Army Institute of Research (Division of Experimental Therapeutics) in Washington, D.C., through Aug. 1.

D.E. Kyle (former Grad Stu) and **G.P. Noblet** (Prof) published "Seasonal Distribution of Thermotolerant Free-Living

Amoebae. II. Lake Issaqueena" in Journal of Protozoology.

T.L. Vandergon (Grad Stu) presented "Identification and Characterization of Hemoglobin of a Gymnophallid Metacercaria, a Parasite of the Marine Polychaete *Amphitrite ornata*" at the Southeastern Society of Parasitologists meeting in Athens, Ga., in April. The paper was written with **J.H. Burden** (Grad Stu), **Noblet** and **J. Colacino** (Assoc Prof).

At the same meeting, Noblet presented "Occurrence of Metacercariae (Trematoda: Gymnophallidae) in Metanephridia of *Amphitrite ornata* (Annelida: Terebellidae)," written with Burden.

Computer Science

D.E. Stevenson (Assoc Prof) presented "The nC Programming Language" at the Array Conference (FPS User Group) in Montreal in April. He also was elected chairman of the T-Series Special Interest Group of Array.

R.M. Geist III (Assoc Prof), **R.W. Reynolds** (Lab Manager) and **E.P. Harris** presented "Disk Scheduling in System V" at the ACM Sigmetrics Conference on Measurement and Modeling of Computer Systems in Alberta, Canada, in May.

Electrical and Computer Engineering

J.W. Lathrop (Prof) and **P.A. Williamson** (Research Assoc) presented "Failure Mechanisms in Amorphous Silicon Solar Cells" at the 19th Photovoltaic Specialists Conference in New Orleans in May.

Elementary and Secondary Education

G.F. Elrod (Vstg Asst Prof) and **G.R. Weisenstein** (Univ of Wash) published "Transition Services for Adolescent Age Individuals With Mild Mental Retardation" in Transition Issues and Directions, Ianacone and Stodden, eds.

D.E. Barrett (Assoc Prof) presented "The Effects of Early Intervention on IUGR Infants" with Nugent, Hoffman and Censullo (Boston Children's Hospital) at the biennial meeting of the Society for Research in Child Development in Baltimore in April.

Barrett published "Undernutrition and

Child Behavior: What Behaviors Should We Measure and How Should We Measure Them?" in Early Nutrition and Later Achievement, J. Dobbing, ed.

Engineering

J.C. Jennett (Prof and Dean) was elected president of the S.C. Society of Professional Engineers' Piedmont chapter. He also received the 1987 Outstanding Alumnus Award from the University of New Mexico's College of Engineering.

English

J.P. Zanes (Asst Prof) published the short story, "The Animals of Riyadh," in Emrys Journal.

R. Rollin (Lemon Prof) read "Polymorphous Identification: A Reader-Response Analysis of *The Story of O*" at the SUNY-Buffalo Symposium in Literature and Psychoanalysis in May. He also reviewed J. Gertzman's Fantasy, Fashion and Affection: Editions of Robert Herrick's Poetry for the Common Reader for the newsletter of the Popular Culture Association in the South.

J. Idol (Prof):

- gave the principal address at the retirement ceremony of the executive director of the House of Seven Gables in Salem, Mass., in May.

- read "Thomas Wolfe and Majorie Kinnan Rawlings" at the Thomas Wolfe Society meeting at the University of North Carolina at Chapel Hill in May.

- reviewed The Piano Tuner: Stories by Peter Meinke in the winter issue of Studies in Short Fiction.

J. Calhoun (Alum Prof) published "James Dickey" in Fifty Southern Writers After 1950, Flora and Bain, eds.

Entomology

M.E. Gilreath (former Grad Stu), **G.S. McCutcheon** (Instr), **G.R. Carner** (Prof) and **S.G. Turnipseed** (Prof) published "Pathogen Incidence in Noctuid Larvae From Selected Soybean Genotypes" in Journal of Agricultural Entomology.

Carner was elected president of the Southeastern Electron Microscopy Society for 1987-88 and took office at the society's annual meeting in May.

P.M. Horton (Assoc Prof) and **J.B.**

(Continued on next page.)

notes, cont.

Kissam (Prof) published, with colleagues at the Medical University of South Carolina, "Impact of Fire Ant Sting Morbidity in South Carolina" in The Journal of the South Carolina Medical Association.

Experimental Statistics

W.C. Bridges Jr. (Asst Prof) published "Confidence Interval Estimators for Heritability for Several Mating and Experiment Designs," written with S.J. Knapp (Oregon State Univ), in Theoretical and Applied Genetics and "Foundation Populations for Adapted by Exotic Crosses," written with C.O. Gardner (Univ of Neb), in Crop Science.

Extension Home Economics

G.M. Couchman (Assoc Prof) published "Training for Women Over 35" in Vocational Education Journal.

C.T. Mounter (Assoc Prof) led the workshop, "Communication and Knowing Yourself and Others," at the Family Community Leadership Conference in Greenville for volunteers and professionals.

Forestry

R.E. Schoenike (Prof) published "A Bibliography of Leyland Cypress With Brief Annotations -- Part II" as the Clemson University Department of Forestry Bulletin No. 51.

S.M. Jones (Ag Science Assoc) and **W.H.D. McGregor** (Prof) published "The Drought of '86: A Lesson in the Role of Climate in Shaping the Distribution of Forests" in Fernback Quarterly.

History

J.L. Arbena (Prof) was a moderator and discussant on the panel, "Baseball in Latin America," during the annual convention of the North American Society for Sport History in Ohio in May.

Industrial Engineering

Several faculty members and students participated in the World Productivity Forum and spring Industrial Engineering Conference in Washington, D.C.

• **B.A. Watford** (Asst Prof) and **J.A. Blessing** (Grad Stu) presented "INFMSS: An Intelligent FMS Scheduling System," a paper derived from Blessing's master's thesis.

• Blessing was selected by the Insti-

tute of Industrial Engineers to receive the Graduate Research Award for submitting the most outstanding master's thesis.

• **Watford** moderated sessions for the manufacturing systems and production and inventory control divisions and received the Award of Excellence from the institute for her role as adviser to Clemson's student chapter of IIE.

• **D.L. Kimbler** (Asst Prof) chaired meetings of the Institute Manufacturing Production Task Force.

Library

M.A. Armistead (Assoc Librarian) published "Directories of Publishing Opportunities: A Bibliographical Survey" in Reference Services Review.

Management

W.H. Hendrix (Prof) and **B.A. Spencer** (Asst Prof) had "A Preliminary Test of Brooke's 1986 Model of Absenteeism" accepted for presentation at the Southern Management Association meeting scheduled in New Orleans in the fall.

IBM recently gave software worth almost \$100,000 to the management department for teaching and research on artificial intelligence. **C.W. McNichols** (Prof) is the principal investigator. In addition, Jobcope Corporation recently gave software worth \$65,000 to the department to use in teaching and research on manufacturing management. **R.L. LaForge** (Prof) is the principal investigator on that project.

Mathematical Sciences

M.M. Kostreva (Assoc Prof) presented "A Parametric Feasible Directions Method" with C. Struck (GTE Labs) at the Society for Industrial and Applied Mathematics Conference on Optimization in Houston in May. He also published "Overlapping Operations in Material Requirements Planning" with S.C. Graves (MIT) in Journal of Operations Management.

Nursing

P.M. Padgett (Administrative Asst) gave a talk about the Commission on Classified Staff Affairs at the annual meeting of the S.C. Association of Cooperative Extension Secretaries in Fort Mill in May. Padgett is chairman of the commission.

R.B. Hughes (Asst Prof) and **F.K. Bailey** (Vstg Instr) published "Acquired Immune Deficiency Syndrome From a School Health Perspective" in Pediatric Nursing.

S.E. Barger (Assoc Prof/Assoc Dean, Professional Services) was appointed to the American Nurses' Association's task force to develop guidelines for nurse-managed centers.

Parks, Recreation and Tourism Management

L.W. Gahan (Alumni Prof) presented "The Public Recreation Delivery System in Cali, Colombia, South America" at the annual spring meeting of Partners of the Americas at Columbia College in May. Gahan participated in an exchange program to Cali in December.

Plant Pathology and Physiology

W. Witcher (Prof) and **W.L. Ogle** (Prof, horticulture) published "Relative Resistance of Sixteen Southern Pea Cultivars to Root-Knot" in Plant Disease.

Political Science

C.W. Dunn (Prof and Chairman) published a paper on "The Crisis of the Federal Budget Deficit" under the sponsorship of the Strom Thurmond Institute of Government and Public Affairs.

Poultry Science

B. Glick (Head and Prof) presented an update on Clemson's research on turkeys at the North Carolina/South Carolina Turkey Federation meeting in Myrtle Beach in May.

R.J. Thurston (Prof) presented "Ultrastructure of Spermatozoa From Domesticated Birds: Comparative Study of Turkey, Chicken and Guinea Fowl" at the Scanning Microscopy International meeting in Ontario, Canada, in May. He also chaired the reproductive biology and zoology sections.

Psychology

T.R. Alley (Asst Prof) gave an invited talk, "Taxonomies of Organisms and Environments: An Ecological Perspective," at the 1987 meeting of the International Society for Ecological Psychology at Emory University in May.

Textiles

H.M. Behery (Prof) chaired the session, "Color Measurement Applications in Textile Design and Marketing," at the Textile Institute Annual World Conference in Italy in May. This is the fourth world conference Behery has been invited to as session chairman.



JUL 1 1987

Newsletter

Vol. 26, No. 41

July 1, 1987

Information for the Faculty and Staff of Clemson University

Clemson celebrates Constitution's bicentennial

Clemson will be the opening site the week of July 13 for a project by three major land-grant institutions to mark the bicentennial of the U.S. Constitution.

Clemson, the University of Maryland and Penn State will present programs of lectures and discussions on various issues relating to the Constitution by some of America's most eminent scholars.

All lectures in Clemson's series will be held at 1:30 p.m. in Daniel Hall Auditorium and will be free and open to the public.

Archibald Cox will speak July 13 on "The Role of the Supreme Court: Judicial Activism or Self-Restraint?" His lecture will be discussed by John Brigham, University of Massachusetts/Amherst; Sue Davis, University of Delaware; Louis Fisher, Library of Congress; and Shep Melnick, Brandeis University.

Carl Rowen will lecture July 14 on

"The Rights of Ethnic and Racial Groups Under the Constitution." Discussants for this program will be Kermit Hall, University of Florida; Stanley Kutler, University of Wisconsin; Tinsley Yarbrough, East Carolina University; and Gordon Wood, Brown University.

Arthur Schlesinger Jr. will speak July 16 on "The President and the Constitution." His lecture will be discussed by William Lasser, John Johnson, Daniel Wueste and James Hite, all of Clemson.

July 17, Sen. Charles McC. Mathias (R-Maryland) will speak on "Original Intent and the Constitution." Discussants for this lecture will be Lyle Denniston, Baltimore Sun; Gary McDowell, U.S. Department of Justice; Steve Wermiel, Wall Street Journal; and Elder Witt, Congressional Quarterly.

Vice Provost Jerry Reel, who is coordinating the lecture series, said it

is appropriate for such a discussion of the Constitution to take place on the Clemson campus.

"Clemson was founded on what was once Fort Hill plantation, the home of John C. Calhoun, by his son-in-law," Reel said. "Calhoun was one of the great constitutional thinkers of the 19th century.

"He was the formulator of the Doctrine of Nullification that was used to support the issue of states' rights and that, ironically, later became the foundation on which the issue of minority rights was based."

Reel added that the program promises to be lively and controversial.

"We have a healthy blend of liberal and conservative viewpoints represented by the lecturers and discussants," he said.

"The fact that we can present an open, public debate on the Constitution is itself a tribute to the strength of this 200-year-old national treasure."

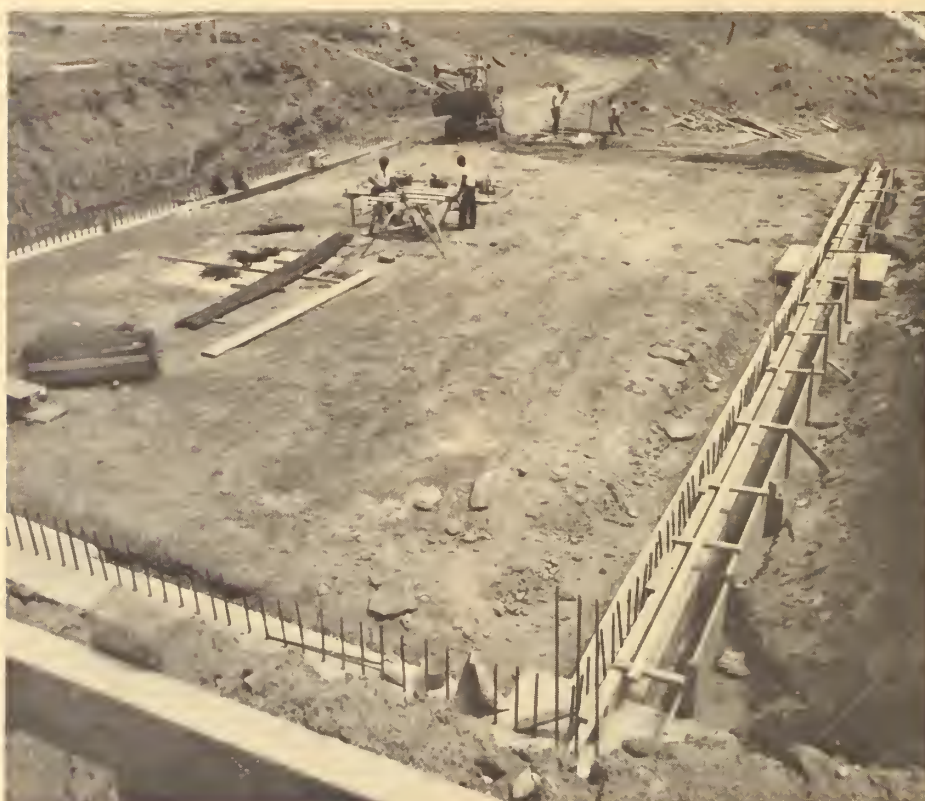
A June Anniversary

Visiting Clemson was a piece of cake for Gary Risberg of Kennesaw, Ga., when he helped the Visitors Center staff celebrate three years of providing informational services to campus visitors.

Manager Janis McWhorter (right) cuts the cake while Assistant Manager Polly Laffitte watches.

Since the center opened June 4, 1984, 70,555 people have used its services, including 47,350 visitors to the facility. Also, 1,364 guided walking tours of the campus have been given, and 650 tour schedules were arranged for 23,205 individuals who visited as part of school and community groups.





Construction of the University's new Computer Operations Center is under way at the Clemson Research Park, a 210-acre industrial park being developed by the S.C. Research Authority. The 40,000-square-foot computer facility, scheduled for completion this December, will house the University's mainframe computer operations and contract programming groups. Groundbreaking ceremonies for the research park were held last October.

Fun and food highlight July 4

Clemson's sixth annual Fourth of July FUNFEST at the YMCA Beach is shaping up to be the community's largest and most entertaining ever.

Close to 10,000 people are expected to attend the festival.

There will be something for everyone, no matter the age or activity level. In addition to traditional games, fireworks, music and dancing, organizers this year have added an arts and crafts show, lunch-time barbecue cooking and dessert contests, and more food vendors during the day.

Gates will open at 9 a.m. for the arts and crafts show. A "mini-Olympics" for kids will begin at 10 a.m., and the beach will be open for swimming from noon until 7 p.m.

In the afternoon, there will be a demonstration of radio-controlled model airplanes, tube races and a two-

mile fun run. Old-fashioned family games will begin at 4:30 p.m., followed by John Welter's famous barbecue chicken dinner from 5 to 7 p.m.

Dinner tickets, at \$5 each, must be purchased in advance from Lynch Drugs or the Holtzendorff YMCA.

The evening will bring music -- bluegrass, gospel and patriotic -- interspersed with clogging and square dance demonstrations, and the day's festivities will be topped off by a fireworks display over Lake Hartwell.

Call the Holtzendorff YMCA at 656-2460 for more information.

The Clemson University Newsletter is published for the faculty and staff of Clemson University by the Division of University Relations.

University Newsletter Editor Deborah M. Slice
Director, News Services Catherine Sams

We welcome your comments and suggestions. Call us at 656-3860 or write us at the Trustee House. **DEADLINE is noon, July 7, for July 15 issue.**

College names administrators

Two new department heads have been named in the College of Architecture: Jose Caban in planning studies and Roger Liska in building science.

Caban joined the Clemson faculty in 1979. He became acting department head two and a half years ago after Ed Falk retired.

Liska, who has been on the University faculty since 1983, succeeds Ralph Knowland, who retired June 30.

Four employees honored

Four University staff members have been named Business and Finance employees of the month for May.

Honored for outstanding service were Sue Hipps, accounting technician in financial management; Frederick DePalma, equipment operator in the print shop; and Barbara Owens and Linda Merck, custodial workers for the Physical Plant.

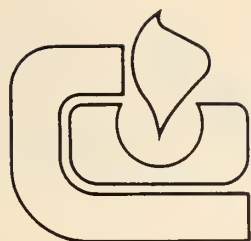
Skipper and Kline on "Straight Talk"

Agronomy Professor Horace Skipper and microbiology Professor Ellis Kline will be the guests on WAX-TV's "Straight Talk" show July 5.

They will talk about Clemson's biotechnology research initiative, which was announced June 15.

The show will air at 10 a.m.

**The next Newsletter
will be published July 15**



Events

Information for the Faculty and Staff of Clemson University

Bicentennial Events July 13-17

Clemson University joins the University of Maryland and Penn State in celebrating the 200th anniversary of the United States Constitution July 13-17. Entitled "A Constitutional Bicentennial Summer," the program will present a series of lectures geared toward providing a better understanding of the document and examining issues concerning it today.

All lectures will begin at 1:30 p.m. in Daniel Hall Auditorium. Receptions will follow.

- July 13** **Archibald Cox**, former Watergate prosecutor, speaks on
"The Role of the Supreme Court: Judicial Activism or Self-Restraint?"
- July 14** **Carl T. Rowan**, syndicated columnist and commentator, speaks on
"The Rights of Ethnic and Racial Groups Under the Constitution."
- July 16** **Arthur Schlesinger Jr.**, renowned historian and author, speaks on
"After the Imperial Presidency."
- July 17** **Charles McC. Mathias Jr.**, former senator from Maryland, speaks on
"Original Intent and the Constitution."

Special Parking Notice:

The library parking lot on the east side (facing Strode Tower) will be reserved for guest parking all day for each of the four days. Campus police officers will be on hand to direct traffic and to assist employee- and guest-parking.

Commuter lot C-1 and employee lot E-1 (east of Redfern Health Center) will be available for parking. Additional parking will be allowed on the grass near McAdams Hall as directed by officers.

New 'Cafeteria Plan' for benefits may help you save money

For those of you wondering if the new cafeteria plan will take a bigger bite out of your paycheck each month, the answer is no, says the director of payrolls and employee benefits.

"There is no catch," says Ron Herrin. "In essence, by joining the plan, you're letting Clemson pay your premiums, which it can use to save you money on health maintenance organizations and health and dental insurance," says Herrin. "It simply allows you to pay for the insurance with before-tax dollars rather than with after-tax dollars."

Under the cafeteria plan, employees agree to have their gross salaries

reduced for computing federal, state and social security taxes by the same amount they would normally pay anyway for state medical and dental plans.

The benefit, Herrin says, is that the amount contributed will be treated as an employer contribution, which is tax-free. Thus, by paying for these benefits before taxes are deducted, employees will actually see an increase in take-home pay.

"The only thing our employees should be aware of is that by the time they collect that social security check at age 65, it may be slightly less that it would have been," he says.

"However, since the average

average employee with full family coverage will save around \$35 a month with this plan, you would more than make up that difference."

Herrin says all employees must fill out a Flexible Benefits Employee Enrollment Election Form stating whether they wish to participate in the plan.

Completed forms should be returned to the Payroll/Insurance Office, G13 Sikes Hall, by Sept. 30 for the employee's election to be effective this year.

Individuals electing to participate during open enrollment in October will have to wait until Jan. 1, 1988, for the change to become effective.



'Pick of the Litter'

Laurie Crino, an administrative specialist in the department of agricultural communications, is the first recipient of the University Relations "Top Cat" award, which recognizes "purr"formance, "purr"fection, and "purr"sonality.

Crino was honored for her instrumental role in organizing her department's move from Fike Recreation Center and the Trustee House into the P&A Building and for her assistance in training other staff members in the use of the department's new computer system.

News Services names three staffers

Three vacancies have been filled in the department of news services.

Catherine Sams has been named director of the department, Robin DeLoach has been named University news editor and Mark Ford has been named University Newsletter editor.

Sams, a 1977 Phi Beta Kappa journalism graduate from the University of South Carolina, has been with Clemson since 1981. She has served as associate experiment station editor and University science editor. Before joining the University, the Anderson native was director of news services at Anderson College and a reporter for the Greenwood Index-Journal and the Anderson Daily Mail.

Sams' research reporting won her the 1987 Council for the Advancement and Support of Education District III grand award for excellence in newswriting.

She will manage the department's

operations and coordinate the University's internal and external public relations programs. She succeeds Margaret Pridgen, who was promoted to assistant vice president for University Relations in April.

"We conducted an extensive search and were delighted to find the right candidate for the job right here," said Pridgen in announcing the appointment.

"The search committee looked for media experience, college public relations experience and experience managing a news bureau operation. We found all three in Cathy, as well as a superb writing talent," she said.

As University news editor, DeLoach will be responsible for covering the Division of Student Affairs and the College of Commerce and Industry, in addition to coordinating the student hometown-release program and the University's editorial service to newspapers.

She comes to Clemson from Fieldcrest Cannon Inc. in Eden, N.C., where she was editor for employee and public information. Before, she was editor of the Allendale County Citizen and a reporter for the Winston-Salem (N.C.) Sentinel.

A 1975 graduate of the University of North Carolina's journalism program, DeLoach worked in the UNC news bureau as a student.

Ford, a 1985 Clemson graduate, has been with the University for the past two years, serving in a variety of short-term positions covering the areas of arts and education, Extension and agriculture, and science and engineering.

While in school, the Seneca native majored in English and minored in advertising. As Newsletter editor, he will be responsible for covering the University for the weekly faculty and staff publication, as well as coordinating the University's master calendar.

departmental notes

Accounting

Ralph E. Welton (Asst Prof), George T. Friedlob (Prof) and F. Ray Gray (Assoc Prof) have been awarded a Lybrand Certificate of Merit by the National Association of Accountants for their manuscript "LIFO Nonconformity: Just How Far Can We Go?" scheduled for publication in Management Accounting.

Administrative Programming Services

Elizabeth N. Nell and Judith A. Nicks presented a paper entitled "Implementation and Use of Fifth-Generation Software -- A Case Study" at the Higher Education Network Association Conference in Myrtle Beach.

Aquaculture, Fisheries & Wildlife

Rick Busch (Wildlife Biologist) chaired a workshop entitled "Shooting Preserves in South Carolina -- An Economic Alternative for the Farmer" at the

Southern Railway Plantation in Dorchester County.

Civil Engineering

Paul B. Ziellinski (Prof) has been elected secretary-treasurer of the National Association of Water Institute Directors for 1987-88.

Mechanical Engineering

Frank W. Paul (McQueen Quattlebaum Prof) was invited to visit Tammec Division, Tampella Corp. and the mechanical engineering department, Helsinki University of Technology to give semi-

nars on Active Robot End-Effector Technology.

He also visited the Technical Research Centre of Finland to see research work in automated manufacturing.

Title changes in Student Affairs:

Almeda Rogers is now the Associate Vice President for Student Affairs and Dean of Students.

Bob Skelton is now the Associate Vice President for Student Affairs and Dean of Admissions and Registration. Both were assistant vice presidents.

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University Newsletter Editor Mark Ford
Director, News Services Catherine Sams

We welcome your comments and suggestions. Call us at 656-3860 or write us at the Trustee House. **DEADLINE is July 21, noon, for July 29 issue.**



Newsletter

JUL 22 1987

Vol. 26, No. 43

July 22, 1987

Information for the Faculty and Staff of Clemson University

Recent change in FOI law makes certain salary information public

Some faculty and staff members may be reading about their paychecks in the morning newspapers because of changes made in South Carolina's Freedom of Information Act this year.

Changes in the FOI Act require public agencies, such as the University, to disclose a wide range of specific salary information to anyone making a written request, says Cathy Sams, director of News Services.

"The law previously covered only the salaries of department heads of public agencies," says Sams. "Most agencies, using a definition that had the okay of the Attorney General's Office, interpreted that to mean 'agency head.' In our case, that would be the University president."

Salary information on other indi-

viduals not covered by the law has been released on occasions when the administration decided it was in the University's best interest to comply with certain requests, she says.

The new version of the act is more specific, however, making public the salaries of any full-time state employee who earns more than \$50,000, all part-time employees and all department heads.

Additionally, the grade and pay range within \$4,000 can be disclosed for all employees who earn between \$30,000 and \$49,999 per year.

"There's still some uncertainty about the term 'department head,' which is usually used here in the academic context. The University uses a variety of other supervisory

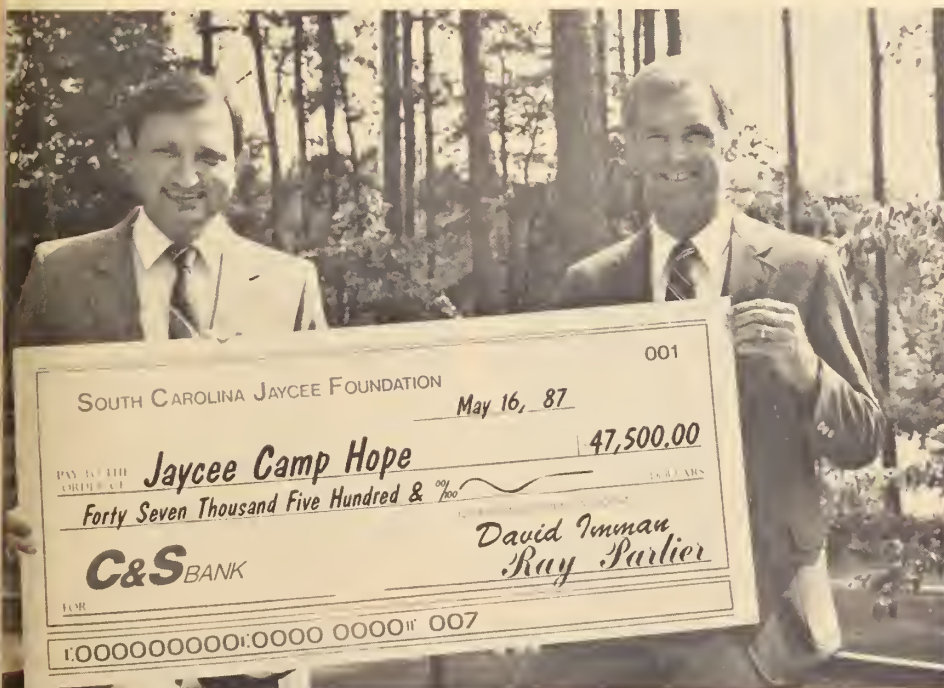
titles, such as director and manager," Sams says.

"Each vice president is developing a list of who he considers department heads within his area so that we'll be prepared to answer that question when it arises."

Facilities committee to meet at later date

The Facilities Planning Committee will not meet in July for its regularly scheduled meeting.

The next meeting will be Aug. 19 at 1:30 p.m. in the board room of Sikes Hall.



Check this out!

The size of this check presented to Clemson's Outdoor Laboratory grew even larger as contributions for Jaycee Camp Hope this summer totaled \$75,600.

Here, Ray Parlier (left), 1987 Camp Hope program manager for the S.C. Jaycees, presents a check to Charlie White, director of the Lab, to support Camp Hope visits by more than 300 children. In addition, a new truck and a pontoon boat will be purchased and \$25,000 contributed to the Rainbow for Hope Endowment.

The Jaycees, who have supported Camp Hope since 1970, received the national Jaycee award for their outstanding state project.

Board adopts budget, names life trustee

At its July 11 meeting, the Board of Trustees:

- elected Louis P. Batson Jr., chairman of the board, to a second term as chairman and named him a life trustee.

A board member since 1979, Batson is a 1948 honor graduate of Clemson. He is chairman of Louis P. Batson Co. of Greenville and its three affiliate corporations, as well as numerous other business and civic organizations.

He succeeds Robert R. Coker of Hartsville, who announced his resignation after 27 years of service to the board. Coker will become a trustee emeritus.

- approved a \$227- million total budget that includes an 8.3 percent increase in tuition and fees for South Carolina residents and a 14.8 percent hike for out-of-state students.

Clemson's budget consists of \$95 million for education and general programs and \$48 million for public

service activities, including the Extension Service and Agricultural Experiment Station. The rest of the budget consists of revenue-generating activities such as professional development, computing services and auxiliaries.

- approved an increase in health services of \$10 per semester, bringing the charge to \$80 a semester, and a 5 percent housing increase.
- adopted new institutional advancement policies that set guidelines for naming buildings and setting up named endowments.
- heard in-depth reports on public service activities and objectives for the future from deans in the College of Agricultural Sciences and the College of Forest and Recreation Resources. The Board also heard year-end reports on the Clemson University Foundation, IPTAY, Student Government, Faculty Senate

and the Alumni Association.

- passed a resolution supporting the nomination of Thomas Green Clemson to the S.C. Hall of Fame.

Also, President Max Lennon presented plaques to P.W. McAlister of Laurens and James C. Self of Greenwood, who were nominated for the National Association of Governing Boards' Distinguished Service Award in Trusteeship.

Professional Secretaries to meet in August

The next meeting of Professional Secretaries International will be Aug. 10 at 5 p.m. in the Clemson Golden Corral.

All secretaries are welcome.

For more information, contact Linda Brady at 656-2249.

Arrange for exhibits now

With the University's Centennial Celebration just around the corner, many departments on campus will be creating exhibits to mark the occasion. If you're planning an exhibit and would like to have it in the Cooper Library, call Mike Kohl at 656-5176 or Rich Meyer at 656-3026 as soon as possible.

Cooper's Special Collections unit coordinates the preparation and display of exhibits in the library lobby and needs to know from six to eight months in advance in order to make sure space is available for your exhibit.

Barbershop singers to perform July 25

Several barbershop quartets and choruses will perform in Tillman Hall Auditorium Saturday night, July 25, in conjunction with the Lakeside Harmony Weekend.

Sponsored by the Dixie District of the Society for the Preservation and Encouragement of Barbershop Quartet Singing in America, the 8 p.m. show will feature the Classic Collection, 1982 international champions of barbershop quartet singing.

The performance is open to the

public. Tickets are available at the door and are \$6. Tickets for senior citizens and children under 12 are \$5.

Being held for the fourth consecutive year, the Lakeside Harmony Weekend is a workshop drawing as many as 400 barbershop singers from across the Southeast to Clemson.

Flower day is Saturday, July 25, in the botanical garden from 9 a.m. to 4 p.m.

Newcomers sought

The Newcomer's Interest Group of the Clemson University Woman's Club is trying to contact all newcomers to the area.

If you've been here three years or less and have any affiliation with the University, please call Sheila Hogan at 654-8152.

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University Newsletter Editor Mark Ford
Director, News Services Catherine Sams

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Newsletter

JUL 29 1987

Vol. 26, No. 43

July 29, 1987

Information for the Faculty and Staff of Clemson University

Briefly...

Snell named ASAE Fellow

Absalom Snell, acting dean of agricultural research and acting director of the S.C. Agricultural Experiment Station, has been named a fellow of the American Society of Agricultural Engineers.

Fellows are selected on the basis of professional distinction and must have at least 20 years of active practice or teaching experience in agricultural engineering.

Only 2 percent of ASAE members achieve the title of Fellow. ASAE has more than 11,000 members in 50 states and more than 100 countries.

Rodgers receives award

John Rodgers, former head of the agricultural education department, has received the S.C. Future Farmers of America Outstanding Service Award, that organization's highest honor.

Rodgers was a member of the agricultural education department for more than 20 years, serving as both a professor and director of research before becoming department head in 1980. He retired June 30.

Prater receives award

An accounting professor is the recipient of the 1987 J.E. Sirrine Textile Foundation Teaching Award.

Mary Ann Prater received the award for dedication to the profession and outstanding undergraduate instruction.

Prater has taught accounting at Clemson for four years.

Kittrell named new resident director of Pee Dee center

A veteran tobacco expert and agronomist has been named resident director of the University's Pee Dee Research and Education Center near Florence.



Kittrell

Ben Kittrell will assume his duties Aug. 1, coordinating efforts among 65 scientists, Extension specialists and support technicians in crop research on tobacco, corn, cotton,

grains, soybeans, peanuts, vegetables, forestry, livestock and soil and water practices.

"Ben has served this state since 1978 as the tobacco specialist for Clemson's Extension Service, and he has gained the admiration and respect of producers, agribusiness men and women, legislators, colleagues and citizens not only in the Pee Dee region but statewide," says Milton Wise, vice president and vice provost for agriculture and natural resources. "We are delighted to have him as director of this very important center."

A North Carolina native, Kittrell earned bachelor's and master's degrees in agricultural education and a doctorate in agronomy. He has served as a high school agriculture teacher and director of a tobacco research center in North Carolina and was a soybean specialist in Georgia.

He succeeds John Pitner, the resident director from 1957-1986.

Additional parking to be available soon

By the beginning of fall semester, some new parking spaces will be available to University employees, says the director of parking and vehicle registration.

"We're going to be converting the parallel parking near the Nursing Building and Earle Hall into angle parking," says Bill Pace, "and we expect it to open up approximately 35 or so new parking spaces."

Pace says two areas will be covered by the new spaces:

One area will run along the north side of South Palmetto Boulevard

(near the Nursing Building) to the Thurmond Institute construction site.

The other area will run along the south side of the same street (on the other side of the construction site) to Earle Hall.

"We're creating some spaces here to offset the ones lost because of the construction of the Thurmond Institute," says Pace. "The Traffic and Parking Committee made a study of the area and determined that the street was wide enough to place angle parking on one side without creating a traffic problem."



Milton Wise (left), vice president and vice provost for agriculture and natural resources, greets Massimo Mancini, director general of the Italian Trade Commission, and Marcello Inghilesi, the commission's president.

Commission members were on campus recently for the presentation of a \$92,000 grant to the departments of agricultural engineering and agricultural economics and rural sociology for a study to assess U.S. agricultural equipment needs to the year 2000.

Vehicle registration is Aug. 3

Vehicle registration for faculty and staff will begin Aug. 3.

Employees can register their vehicles at the Office of Parking and Vehicle Registration (OPVR) in the University Police Building on A Street from 7:30 a.m. to 4:30 p.m. Monday through Friday. All employees should be prepared to show vehicle registration and I.D. cards.

An employee can register a maximum of two vehicles for the \$12 fee but will be issued only one hang tag, says Bill Pace, director of parking and vehicle registration.

The funds will be used mainly for maintenance and improvement of parking facilities, which previously were subsidised by the University's Education and General Budget.

Decals must be displayed on the left side of the rear bumper or on the left side of the rear window along with hang tags displayed from the rear-view mirror, Pace says. "Both the decal and the hang tag must be visible, or the driver could get a ticket for improper display," he says.

Lost or stolen decals or hang tags will cost \$12 to replace, but if a faculty or staff member trades or sells a vehicle, he or she can get new decal/hang tag at no charge.

"In instances where a vehicle is sold or traded, the former owner must bring in the old decals and hang tags to the OPVR in order to receive decals and hang tags for the new vehicle," says Pace.

"I would urge everyone to do so as soon as possible, though, because they will be ultimately responsible for that vehicle until those decals are removed. So if, for example, those old decals remain on the vehicle and the new driver gets a few tickets, the former owner will be responsible for the tickets until proof of sale and the sale date is provided to verify new ownership."

In addition, anyone driving a vehicle with decals/hang tags reported as lost or stolen will be prosecuted.

Pace says anyone with questions concerning vehicle registration or the new parking code should contact the OPVR at 656-2270.

Changes in University parking regulations go into effect Aug. 15.

"A lot of employees have several outstanding tickets already, some as many as five," says Pace. "We want to encourage those employees to come in and take care of their tickets now before it's too late. After Aug. 15, vehicles with five or more tickets will be included on our 'hot list,' and will be subject to being towed."

Changes include:

- * A \$12 vehicle registration charge for all faculty, staff and students.
- * Parking fines have doubled and tickets will reflect the maximum amount but will be reduced by 50 percent if paid within 15 days. The towing fine will not be reduced.
- * Vehicles accumulating five unpaid tickets will be towed and impounded.
- * All towed and impounded vehicles will be released only after all parking fines and impound fees have been paid.

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University Newsletter Editor Mark Ford
Director, News Services ... Catherine Sams

We welcome your comments and suggestions. Call us at 656-3860 or write us at the Trustee House. **DEADLINE Is July 28, noon, for Aug. 5 Issue.**

Classified Information

What benefits do permanent part-time University employees receive?

Permanent part-time employees accrue prorated sick and annual leave and prorated holidays.

If they earn more than \$100 per month, or if they have ever been a contributor to the state retirement program and have not withdrawn their contributions, they must contribute to the S.C. State Retirement System. However, the state contributes a given percentage of the employee's earnings to the retirement system on the employee's behalf.

Permanent part-time employees have full library privileges and are eligible to purchase various membership plans in the recreational facilities available on campus.

If they work 30 hours per week for more than six months of the year, employees are eligible for the insurance benefits provided by the University.

Classified Information is a question-and-answer column researched and written by the Commission on Classified Staff Affairs.

Clemson Players present student work

From July 29-Aug. 1, the Clemson Players will present a staged reading of a work in progress by Clemson graduate student Judith Shepherd.

Titled "Madonna and Child," Shepherd's play deals with a young Scottish girl's search for identity and her attempt to find her natural mother against the wishes of the father who adopted her.

The free performance will be at 8 p.m. in Daniel Annex. The audience is invited to discuss the play with the playwright afterward.

Shepherd currently is enrolled in the graduate program in English.

For more information on the play, call the performing arts department at 656-3043.

Focus on certification:

Professional Secretaries International hosts drop-in

The Clemson Chapter of Professional Secretaries International will host an informal drop-in Aug. 4 for those interested in becoming Certified Professional Secretaries.

The 7-9 p.m. gathering in 213 Tillman Hall will serve as an orientation session and will allow interested parties to register for the review courses. Other Certified Professional Secretaries, representatives from the Personnel Division, chapter members and instructors for the sessions will be on hand to answer questions.

To attain the CPS rating, candidates must pass all six parts of the exam given in May and November each year by the Institute for Certifying Secretaries.

The review courses are in six parts. The schedule is as follows:

Aug. 29 and Sept. 12
Office Administration and Communication
213 Tillman Hall
8 a.m. to 1 p.m.

Aug. 25 through Oct. 15
(every Tuesday and/or Thursday)
Economics and Management
213 Tillman Hall
7-9 p.m.

Oct. 22 through Dec. 1
(every Tuesday and/or Thursday)
Behavioral Science
7-9 p.m.

Jan. 9 and Jan. 16
Office Technology
8 a.m. to 1 p.m.

Jan. 19 through March 8
(every Tuesday)
Business Law
7-9 p.m.

March 15 through April 26
Accounting
7-9 p.m.

If enough people enroll, additional classes will be offered from 3:30 to 5:30 p.m. or from 5 to 7 p.m.

The cost for each course is \$30 for PSI members and \$45 for non-members. Textbooks are \$25 per course or \$130 for all courses if purchased as a set.

"More and more, companies are looking for secretaries who are knowledgeable in the areas covered by these exams and who have a solid educational base and are up-to-date on current office procedures," says Linda Brady, president of the Clemson chapter.

"The orientation drop-in will help those interested get a head start on these exams and hopefully will bring them one step closer to becoming Certified Professional Secretaries."

Brady says brochures will be mailed within a few days to all secretarial personnel on campus. Free child care will be available during the orientation session and during the evening and Saturday classes.

For more information on becoming a Certified Professional Secretary, call her at 656-2249.

departmental notes

Academic Programs

E.M. Baines (Assoc Prof) has been elected to serve on the nominating committee of the American Nurses' Association Council on Gerontological Nursing.

Baines also received a grant from the Department of Health and Human Services, National Center for Nursing Research, for \$201,002 for the next three years to investigate "Stress in Older Family Caregivers and the Functional Status of Dependent Elders."

Chemical Engineering

Dow Chemical has made an equipment grant valued at \$24,200 to the department.

Mark C. Thies (Asst Prof) received an American Chemical Society/Petroleum Research Fund grant of \$18,000 for his proposal entitled "Transitions in Fluid-Phase Behavior for Normal Hydrocarbon/Water Mixtures at Elevated Temperatures and Pressures."

Chemistry

K. Dill (Assoc Prof), **E.R. Adams** (Grad Stu), **E.L. McGown** (Biophysical Research Group, Letterman Army Institute of Research), **R. O'Connor** (LAIR), and **S. Chang** (Grad Stu, USF) published the paper "One Dimensional and Two Dimensional Nuclear Magnetic Resonance Studies of the Interaction of Phenylchloroarsine with Glutathione" in Archives of Biochemistry and Biophysics.

Dill also published an invited review article, "Nuclear Magnetic Resonance Spectral Studies of ¹³C Methylated Glycophorins," in Advances of Carbohydrate Chemistry and Biochemistry.

In addition, Dill presented a lecture entitled "Carcinogenesis of Phenylchloroarsine: ¹³C-NMR Study of PDA-Base Pair Interactions" at the Letterman Army Institute of Research, San Francisco, Calif.

J.W. Huffman (Prof) published "Relative Stabilities of the Desmotroposantonins" in the Journal of Organic Chemistry.

R. Kenneth Marcus (Asst Prof) presented a paper entitled "Design and Operation of a New Glow Discharge Mass Spectrometer System" at the XXV Colloquium Spectroscopicum Internationale in Toronto, Canada, June 21-26.

Garth Spencer (Prof) served as chairman of the U.S. Department of Energy panel to review its sponsored research in Chemical Processes under the Small Business Innovation Research program, Washington, D.C., June 8-11.

Entomology

P.M. Horton (Assoc Prof) was an invited panelist at the 24th annual Family Medicine Workshop at the Omni Hotel in

Charleston June 2.

Experimental Statistics

W.C. Bridges, Jr. (Asst Prof) presented a paper entitled "Non-Parametric Interval Estimators for Expected Selection Response" with S.J. Knapp (Oregon State University) at the Second International Conference on Quantitative Genetics in Raleigh, N.C., May 31-June 5.

Fertilizer and Pesticide Control

Von McCaskill (Head) was elected president of the Association of Southern Feed, Fertilizer and Pesticide Control Officials at its 45th annual meeting in Little Rock, Ark., June 14-17. He also served as program chairman for the meeting.

History

Thomas Kuehn (Assoc Prof) reviewed David Herlihy's Medieval Households in the April Catholic Historical Review.

Kuehn also published "Some Ambiguities of Female Inheritance Ideology in the Renaissance" in Continuity and Change.

Jerome V. Reel, Jr. (Prof) reviewed W. McNeil Lowry, ed. The Arts and Public Policy in Opera Journal.

Reel also reviewed Elkhonon Yofe, Tchaikovsky in America: The Composer's Visit in 1891 in Opera Journal.

Horticulture

J.D. Caldwell (Asst Prof) and **L.W. Grimes** (Prof of Experimental Statistics) published "Training Systems for Second-Year Production of Fall-planted Strawberries" in HortScience.

Caldwell and Grimes also published "Response of Perennial Cultured Strawberries to Fall Planting" in Journal of the American Society of Horticultural Science.

R.J. Dufault (Asst Prof at Coastal Research and Education Center) and two colleagues at Texas A&M University published "Orientation of Root and Cotyledon in Pepper Seedlings and Its Use in Field Production" in HortScience.

K.E. Johnson (Former Grad Res Asst), **D.C. Coston** (Prof), **D.W. Cain** (Former Assoc Prof), **P.W. Sites** (Prof, Agricultural Engineering) and **R.E.C. Layne** and **H.O. Jackson** of Harrow Research Station in Canada published "A Large Chamber for Controlled Freezing of Container-grown Plants" in HortScience.

Industrial Engineering

James A. Chisman (Prof) devised, scripted and produced "An Evening with Victor Herbert," which was premiered by the Leaside

Singers in Cork, Ireland, June 18-20.

Marketing

Stephen Grove (Asst Prof), **Gerald Waddle** (Prof) and **Richard Dodder** (Oklahoma State University) had "The Importance of Intercollegiate Sport as a University Product Attribute" accepted for presentation at the Southern Marketing Association meeting scheduled in New Orleans in November.

Mechanical Engineering

Ranganathan Kumar (Asst Prof) presented the paper, "Numerical Study of Laminar Natural Convection in Vertical Annuli," co-authored by **M.A. Kalam** (Grad Asst) in the Fifth International Conference in Numerical Methods held in Montreal, Canada, June 29-July 3. The same paper was published in Numerical Methods in Thermal Problems.

Parks, Recreation and Tourism Management

R.L. Howell (Assoc Prof) presented a seminar at the Clemson Alumni Reunion '87 entitled "South Carolina Tourism: Everybody's Business."

M. Uysal (Asst Prof) and **K. Backman** (Grad Stu, Texas A&M University) presented "Development of a Tourism Index for Texas" at the 18th Annual Conference of TTRA in Seattle, Wash., June 7-11.

Plant Pathology and Physiology

D.R. Anderson (Former Grad Asst) and **N.D. Camper** (Prof) published an article entitled "Application of the Disk Method: Responses to Growth Regulators" in the Journal of Plant Growth Regulation.

Carl H. Frisch (Former Grad Res Asst) and **N.D. Camper** (Prof) published an article entitled "Effect of synthetic auxins on callus induction from tea stem tissue" in Plant Cell, Tissue and Organ Culture.

B. Sammons (Former Grad Asst) and **O.W. Barnett** (Prof) published an article entitled "Tobacco Ringspot Virus From Squash Grown in South Carolina and Transmission of the Virus Through Seed of Smooth Pigweed" in Plant Disease.

Political Science

Martin Slann (Prof) co-edited Multidimensional Terrorism with **Bernard Schechterman** (Prof, University of Miami) and contributed essays for the "Introduction" and "The State As Terrorist."

Sociology

R.J. Knapp (Prof) published an article excerpted from his book on "When a Child Dies" in the July Psychology Today.



Newsletter

Vol. 26, No. 44

Aug. 5, 1987

Information for the Faculty and Staff of Clemson University

AUG 5 1987

Briefly...

Webb elected director

B.K. "Bud" Webb, associate dean of the College of Agricultural Sciences and director of the Clemson Extension Service, has been elected director of the American Society of Agricultural Engineers, Southeast region.

As director, Webb represents nearly 1,000 members of the ASAE, which has 11,000 members in 50 states and 100 foreign countries.

Wixson elected

Bobby Wixson, the new dean of the College of Sciences, has been elected secretary of the U.S. Foundation for International Economic Policy Promoting American Competitiveness Through Initiatives in Commerce, Education and Policy.

The group works to link business practices, academic principles and government policies to promote U.S. success in world markets.

Faculty to meet

A General Faculty Meeting will be held Wednesday, Aug. 19, at 10 a.m. in Tillman Hall Auditorium.

Rowan named first honorary member

Nationally syndicated columnist Carl Rowan is the Clemson Black Alumni Council's first honorary member. He received the honor while on campus for Clemson's celebration of the bicentennial of the U.S. Constitution.

Fischer named new director of S.C. Ag Experiment Station

An internationally known expert in on-farm energy production has been named director of the S.C. Agricultural Experiment Station and dean of agricultural research at the University.



Fischer

Jim Fischer, associate director of the Michigan Agricultural Experiment Station since 1985, will assume his duties at Clemson this fall, says Milton Wise, vice president and vice provost for agriculture and natural resources.

At Michigan State, Fischer shares responsibility for supervising a \$21.5 million agricultural research budget and is directly responsible for defining administrative responsibilities and developing policies for the branches of the Experiment Station.

As dean and director of South

Carolina's only state-funded agricultural research program, he will direct Experiment Station research programs on the campus and at four research and education centers across the state.

"We are truly fortunate to secure the services of an outstanding individual like Dr. Fischer in our research program," Wise says.

"He will be coming on board at a time when many changes in our agricultural research program are being contemplated. His skills in organization and policy development will be very useful in allowing Clemson to maintain its traditional research programs while developing new programs in areas like biotechnology and alternative agricultural enterprises that are extremely important in the future development of the state's agricultural economy."

Prior to working at Michigan State, Fischer spent 11 years as an associate professor of agricultural engineering at the University of Missouri-Columbia and more than 19 years as a research engineer with the U.S. Department of Agriculture's Agricultural Research Service.

Fischer, 42, is a native of Washington, Mo. He earned his bachelor's, master's and doctoral degrees in agricultural engineering from the University of Missouri-Columbia and is a licensed professional engineer.

New faculty/staff orientation will be held Aug. 17 in Lee Hall's Lyles Auditorium at 7:45 a.m.

New faculty members will reconvene the following day at 8:30 a.m. at the same location.

Nursing names new wellness coordinator

The College of Nursing has named Lynn Lesley as coordinator for its University-wide Wellness Program.



Lesley

Lesley, a 1978 magna cum laude graduate of Clemson's nursing program, has a master's in health sciences from the Medical University of South Carolina. She is a registered nurse and is certified in prepared childbirth education.

She comes to Clemson from the

Baptist Medical Center in Easley, where she started LifeCenter, the hospital's wellness program, and was director of staff development and public relations.

"We feel that Lynn's experience in developing a wellness program from the ground up will enable us to make a smooth transition to a regular program of wellness services and events," says Sara Barger, associate dean of professional services in the College of Nursing.

"The overwhelming response of nearly 760 faculty, staff and students to last spring's Wellness Challenge offered by the College of Nursing and the department of physical training and intramural sports indicates that Clemson people are ready to participate in a wellness program," she says.

One particular challenge of the job, says Lesley, is that many people often confuse wellness and physical fitness.

"Physical fitness is only one part of wellness," she says. "Wellness is the whole health/behavior package composed of physical, psychological, social and spiritual well-being."

"The bottom line," she says, "is wellness awareness in health choices and feeling better about yourself and who you are in your environment. People who feel better are more productive, both personally and professionally."

Over the next several weeks, Lesley will familiarize herself with the wellness needs of the University and then develop programs in physical fitness, stress management, personal health and self image. She also plans to bring back a version of the popular Wellness Challenge.

"Word of mouth is very important to the success of this program," says Lesley. "That's the reason the Wellness Challenge was so successful last spring. People kept telling others about how great they felt and how the program was working for them. Feeling better is a great incentive to become involved."

Lesley says she is willing to speak on wellness to any interested campus groups. Her office is Room 108-E in the College of Nursing. Her telephone number is 656-5520.

Staff Commission elects officers for coming year

At its July meeting, the Commission on Classified Staff Affairs elected three officers for the 1987-88 term.

Pat Padgett, an administrative assistant in the College of Nursing, was elected to her second term as chairperson of the Commission.

Gary McCombs, director of business systems development in the Office of Business and Finance, was elected vice chairperson, and Judith McNinch, an administrative specialist in the Laurens County Extension Office, was elected parliamentarian.

The Commission's executive committee will meet Aug. 5 to appoint members to standing committees.

In other business the Commission:

- * Voted to form an ad hoc committee to review Commission bylaws. Members of that committee also will be

appointed Aug. 5, including two former Commission members.

- * Voted to request a seat on the Athletic Council.

- * Voted to establish an alumni network of former Commission members. Network functions would include alumni membership on ad hoc committees, the introduction of ideas and concerns before the Commission, notification of Commission meetings and the receipt of minutes

of the meetings.

The next meeting of the Commission on Classified Staff Affairs is Tuesday, Aug. 11.

Don't forget to register vehicles at the Office of Parking and Vehicle Registration, 7:30 a.m. to 4:30 p.m., M-F.

The Clemson University Newsletter is published for the faculty and staff of Clemson University by the Division of University Relations.

University Newsletter Editor Mark Ford
Director, News Services ... Catherine Sams

We welcome your comments and suggestions. Call us at 656-3860 or write us at the Trustee House. **DEADLINE Is Aug. 4, noon, for Aug. 12 Issue.**

Classified Information

Could you give me information on courses that are available to employees, either for credit or non-credit, and information on auditing classes.

The Personnel Office from time to time offers workshops, seminars and courses that are of interest to staff members and currently is developing a continuing training program.

In addition, permanent, full-time employees of the University are eligible to take up to six hours of academic courses per semester here. Each course and its scheduling are subject to the approval of the employee's supervisor, and all time away from the work station must be made up. A fee schedule is listed in the Undergraduate Announcements.

University employees are eligible to audit courses free. Those interested should verify with the registrar their eligibility to take courses and obtain approval from the course instructor.

Classified Information is a question-and-answer column researched and written by the Commission on Classified Staff Affairs.

Extension agents honored

Clemson University Extension Service agents from Aiken, Berkeley, Chester and Florence counties have been honored for outstanding service and achievement.

Extension directors Allen Bayles of Aiken, James Yonce of Berkeley and Clyde Strange of Chester were presented distinguished service awards at a national meeting of county agricultural agents in Fargo, N.D.

Extension agronomy specialist Joseph Zublena of the Pee Dee Research and Education Center at Florence received a young achievement award. This award is presented annually to the top young agent in the state.

Bayles was recognized for helping a television company develop a home gardening show, "The Weekend Gardener," which is now aired weekly on the Nashville Network and 61 other independent stations across the United States, Puerto Rico and Hawaii.

He also was cited for leading the effort to computerize Clemson Extension

offices across South Carolina and working to adapt computers to farm use.

Yonce was honored for developing urbanized agricultural practices to help his office deal with a massive population increase in Berkeley County. He was also commended for encouraging farmers to diversify their farming operations for year-round income.

Strange, a 30-year veteran of the Extension service, was recognized for developing and promoting several new county and state programs, including a 4-H firearms safety program, a 4-H horse program and a Farm Commodity Marketing Club.

He also was singled out for organizing the first statewide agri-medicine meeting to offer training in safe pesticide use and treatment of pesticide injuries.

Zublena received the young achievement award for developing an educational program on corn production to increase corn yields.

Honorary degrees to be awarded

The University will award honorary degrees Aug. 8 to James R. Fair, holder of the John J. McKetta Centennial Energy Chair in the department of chemical engineering at the University of Texas at Austin, and Lee Thomas, administrator of the U.S. Environmental Protection Agency, who also will give the graduation address.

Both men have strong South Carolina connections. Fair grew up in Newberry and attended The Citadel. Thomas, a Ridgeway native, was a Clemson student in the '60s, has a master's degree from the University of South Carolina and directed S.C. criminal justice and public safety programs for several years.

Advertising in *The Tiger*

The rates for all University departments and recognized student organizations wishing to advertise in *The Tiger* are \$3.25 per column inch. Ad deadlines are 6 p.m. every Monday before the date of publication.

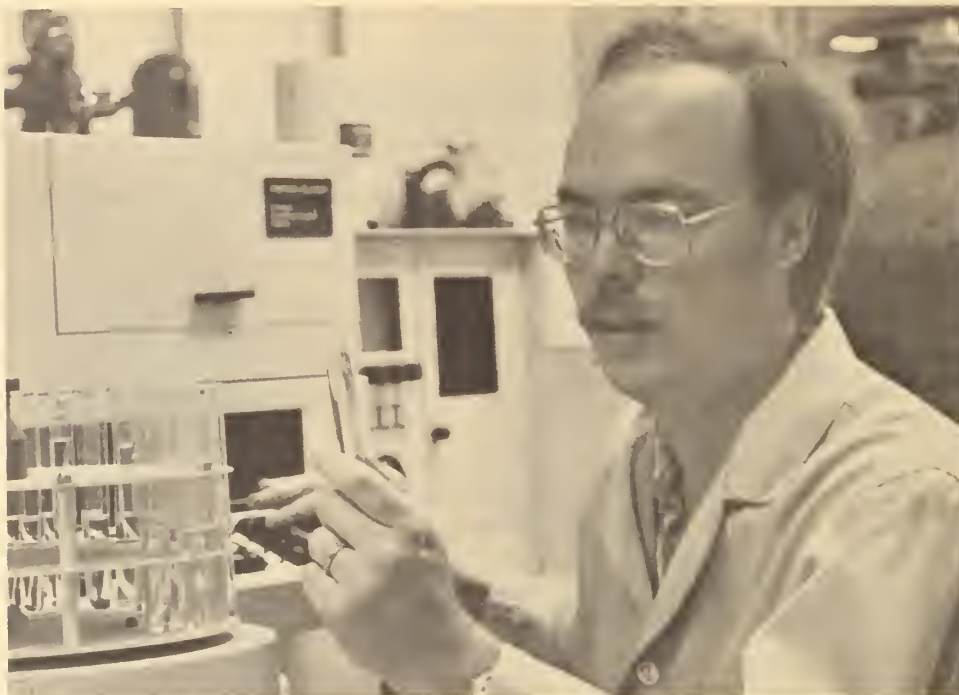
For more information, contact Kirk Bague, director of student development programs, at 656-5993.

Return forms to Payroll and Benefits Office soon

Employees who have not returned their federal W-4 forms and election forms for section 125 (the Cafeteria Plan) to the Office of Payroll and Employee Benefits Programs in G-13 Sikes Hall should do so as soon as possible.

Professional Secretaries International to meet

The Clemson Chapter of Professional Secretaries International will meet Aug. 10 at 5 p.m. in the Clemson Golden Corral. All secretaries are welcome. For more information, contact Linda Brady at 656-2249.



It's a dirty job...

Bob Lippert, director of the University's H.P. Cooper Agricultural Service Laboratory, analyzes a soil sample.

The number of samples tested at the lab is down this year because an exceptionally wet winter made gathering soil difficult for farmers.

However, as the state's agricultural outlook continues to improve, officials expect the number of samples to increase next year.

Anyone can send soil samples for a free analysis by contacting their county Extension office.

No shots mean no school

The Nursing Center, located on the first floor of the College of Nursing building, offers free childhood immunizations and provides the S.C. Certificate of Immunization required for school registration. For more information, call the Center at 656-3076.

PC Days on Campus scheduled for Aug. 18-20

The third annual PC Days on Campus will be Aug. 18, 19 and 20 from 9 a.m. to 4 p.m. in the loggia of the University Union. Sponsored by the Division of Computing and Information Technology, the show will feature representatives from Apple Computer, Tandy/Radio Shack and Zenith Data Systems demonstrating their latest personal computer hardware and software. Discounts are available for faculty, staff and students. For more information, contact the Consulting and Technical Services Help Desk at 656-3494.

Dropouts cost the nation billions annually

If you think the cost of an education is high, the cost of an incomplete education may be even higher.

High-school dropouts cost the United States an estimated \$77 billion worth of public funds every year and the figure is increasing.

"The economic realities are frightening," says Dick Hamby, acting director of the National Dropout Prevention Center at Clemson University.

"Lost tax revenues, welfare payments and crime prevention costs are only part of the growing national burden created by those who don't finish high school."

The NDPC was established in the fall of 1986 in conjunction with the New York-based National Dropout Prevention Fund, with a mandate to create a clearinghouse for information on the nation's dropout problem. The center collects and disseminates statistical information and descriptions

of dropout prevention programs. The center also coordinates research networks in the area of dropout prevention.

Nearly 25 percent of ninth-graders in this country never go on to graduate from high school.

Economic considerations aside, dropouts present another more subtle threat to the nation.

"The armed forces tell us that by the end of the century they may need the service of one out of every two 19-year-olds," says Gordon Gray, head of Clemson's elementary and secondary education department. "Do we really want high-tech military equipment being controlled by an army of undereducated people?"

The dropout problem is nothing new. Hundreds of millions of dollars already are being spent each year on a variety of remedial programs. That's where the NDPC's coordination

activities come in.

"We've found groups in the same state, sometimes even in the same county, who are dealing with dropouts and don't know about each other," Gray notes.

The NPDC is preparing to issue a directory which will aid coordination of such programs. Networking conferences to improve communication among experts in the field also are planned.

"There was a time when a high-school dropout could get a good-paying job and be successful. Economic and social factors today have permanently erased that romantic notion," says Hamby.

"It's probably not realistic to expect everyone in this country to finish high school, but we need to assure that everyone is educated to the absolute best of his or her ability."

Newsletter

Vol. 26, no. 45

AUG 12 1987 Aug. 12, 1987

Information for the Faculty and Staff of Clemson University

Briefly...

Ransdell elected

Gary A. Ransdell, vice president for institutional advancement, has been elected to the Board of Trustees of the Council for the Advancement and Support of Education (CASE). He will serve a two-year term and will represent alumni administration officials.

CASE is the Washington, D.C.-based international education association for professionals in fund raising, alumni administration, public relations, publications and government relations. More than 12,000 administrators at some 2,800 colleges, universities and secondary schools are members.

Committee elects officers

At its July meeting, the Joint City-University Committee elected Gary Campbell, associate director of residential life, chairman for 1987-88. Former Clemson mayor Catherine Smith was named vice chairman.

Clemson Friends needed

If you're interested in becoming an International Friend this fall, contact the Clemson Area International Fellowship (CAIF).

CAIF welcomes international students entering the University each fall by giving them the opportunity to get to know Americans living in the Clemson area. CAIF also sponsors a furniture loan program for international families who move into unfurnished University-owned apartments.

For more information, call Dot Yandle at 654-8979 after working hours. To loan furniture, call Jane or Dwight Camper at 654-3354.

University to honor Trustee, distinguished alumnus

The University will bestow its highest public honor Sept. 18 on a former Clemson Board chairman and an alumnus who helped put the University on the map in the emerging field of technical communications.

The University will present The Clemson Medallion to Laurens attorney Paul W. McAlister and to Gaffney quarryman and conservationist Robert S. "Bob" Campbell Jr. at a public dinner and program on campus.

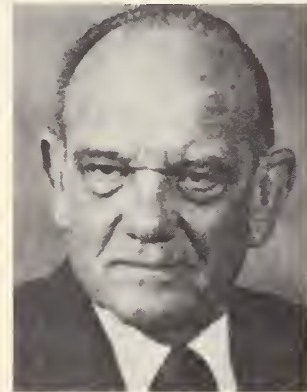
The Clemson Medallion recognizes long and sustained commitment and significant service to Clemson University.



McAlister

McAlister, a life member of the Board of Trustees, is a 1941 Clemson graduate. He served three terms from 1975 to 1981 as Board chairman and currently chairs the Trustees' institutional advancement committee.

He is a member of the S.C. Bar and former president of Laurens Glass Co. He earned his law degree from the University of South Carolina in 1953.



Campbell

Campbell, a 1937 Clemson graduate, is a former Trustee and engineering advisory board member. He was honored in June with the Alumni Association's Distinguished Service Award. In 1986, he and his wife, Betsy, gave stocks worth more than \$1 million to establish here the nation's first endowed chair in technical communications.

Tickets to the dinner honoring McAlister and Campbell are available until Sept. 7 from the Alumni Center. For more information, call 656-2345.

Reminders ...

All registration for CPS review courses due Aug. 14.

The University's new parking regulations go into effect Aug. 15.

General Faculty Meeting, Aug. 19, 10 a.m., Tillman Hall Auditorium.

Orange Carpet Day is Aug. 22.

University celebration to honor Walter Cox

Tickets for the Sept. 5 "Salute to Dean Cox" are available from the Clemson University Foundation until Aug. 21.

A public dinner and program honoring President Emeritus Walter Cox will be held in Littlejohn Coliseum immediately after the Western Carolina football game.

Tickets are \$10 each.

Information and order forms were mailed earlier this month to all faculty,

staff, alumni and students and were included in recent issues of *Clemson University News* and *The Orange and White*.

Orders should be sent to the Clemson University Foundation, 110 Daniel Dr. For more information, call 656-2121.

The Foundation also is accepting contributions for the Walter T. Cox Scholarship Endowment.



Cox

Festival to welcome students back to Clemson

Thousands will take to the streets of Clemson Aug. 18 for a festive kick-off of Clemson's 1987-88 academic year.

The third annual Welcome Back Festival for students, faculty and staff will be held from 5:30-8 p.m. on College Avenue and Sloan Street in downtown Clemson.

Roads will be blocked from the intersection of College Avenue and Seneca Road (Highways 133 and 93, respectively) to the intersection of Col-

lege Avenue and Keith Street (next to Lynch Drug Co.).

Festival goers will be able to buy 25-cent tickets that can be traded for food samples from 25 local restaurants and other businesses.

Various performers, from musicians to the Tiger mascot, will provide entertainment, and the state highway department's "Convincer" machine will be on hand to demonstrate the effectiveness of car safety belts.

Russ Cassell from WFBC-FM in

Greenville will broadcast live from the festival and serve as master of ceremonies.

Special welcoming addresses will be made by University President Max Lennon and City of Clemson Mayor Larry Abernathy.

The festival is sponsored each year by the Clemson University Student Alumni Council and the Clemson Alumni Association in cooperation with the Clemson Chamber of Commerce and the City of Clemson.

Chemical engineering has new department head

Charles Barron Jr. has been appointed head of the department of chemical engineering.



Barron

Barron comes to Clemson from E.I. duPont de Nemours & Co. Inc. in Wilmington, Del., where he has served as a chemical reaction engi-

neering consultant in the company's engineering science division.

The Seneca native earned a bachelor's degree in chemical engineering from Clemson and a doctorate from the University of Virginia. From 1967-68 he was a Fulbright lecturer at the University of Louvain, Belgium.

Barron is a registered professional

engineer in Louisiana and is a member of the American Institute of Chemical Engineers, the American Chemical Society and the American Society of Engineering Education.

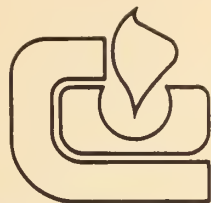
He has been listed in *Who's Who in Science and Technology Today*, *Who's Who in the South and Southwest* and *American Men and Women of Science*.

PC Days on Campus will be Aug. 18-20 from 9 a.m. to 4 p.m. in the loggia of the University Union. For more information, call 656-3494.

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University Newsletter Editor Mark Ford
Director, News Services Catherine Sams

We welcome your comments and suggestions. Call us at 656-3860 or write us at the Trustee House. **DEADLINE is Aug. 18, noon, for Aug. 26 issue.**



Newsletter

Vol. 27, No. 1

AUG 19 1987

Aug. 19, 1987

Information for the Faculty and Staff of Clemson University



CHE grants to fund studies in minority recruitment, retention

The S. C. Commission on Higher Education has awarded the University \$163,562 to recruit and retain minority students during 1987-88.

The Commission awarded \$100,000 in Graduate Incentive Fellowships, \$25,000 in undergraduate grants and \$38,562 for three studies.

The awards include \$18,670 for a program called "Faculty Leadership in Black Student Retention" by Vice Provost for Undergraduate Studies Jerry Reel and Student Development's Joy Smith and Mickey Lewis, \$14,715 for a "Study to Identify Factors that Contribute to Black Student Dropout" by marketing Assistant Professor Jacquetta McClung, and \$5,177 to continue a "Summer Minority Seminar," by nursing Associate Professor Cynthia Lenz.

"Our objective is to involve faculty in the retention of black students and to train a core of educators to address the issue even after the grant money ceases," says Smith.

Reel will head up the faculty leadership program to consist of four components: 1) work sessions for faculty and staff interested in student retention; 2) in-service training for new faculty and those teaching freshman courses to focus on black students entering predominantly white colleges; 3) an expansion of faculty development luncheon programs for

faculty to discuss minority retention within their colleges and 4) intensive evening training sessions addressing instruction, faculty development, student retention and undergraduate needs for faculty and staff of specific committees.

"The project will be evaluated through exit surveys completed by the participants," Smith adds. "We also will survey black freshmen and monitor changes in black student retention over a three-year period."

McClung plans a two-phase approach to identify factors contributing to black student dropout. The first phase includes collecting information on approximately 600 black graduates and dropouts from 1979 to 1986. In the second phase, two black graduate assistants will conduct telephone surveys of the students and question them on their college experiences.

Funds for the summer minority seminar allow 20 high school minority students from across South Carolina to participate in the one-week residential program and develop academic, communication, interpersonal and other skills to succeed in college.

"This is the fifth year we've held this skill-building seminar, and it has been very successful," says Lenz. "We plan to collect more extensive data on students who have attended our seminars in the past and find out if they go on to school and where."

Bell raisin'

Tillman Hall's clock tower gets a hefty addition to its memorial carillon as physical plant workers hoist one of a number of new bells to the top.

In all, 41 cast bronze bells ranging in weight from 29 to 4,396 lbs. have arrived from France, bringing the carillon total to 47 bells.

The carillon's official dedication ceremony will be held Oct. 18.

Briefly...

Lennon named to board

University President Max Lennon has been named to the board of trustees of the Farm Foundation, a national organization devoted to improving research and education to benefit rural areas.

Lennon will serve a four-year term as the university representative on the board that includes farmers, educators, legislators and executives of leading agricultural industries.

Lennon was selected for his leadership in agricultural education and research.

Submit calendar entries now

If you have any upcoming events that you'd like entered in the University's master calendar for 1987-88, now is the time. Send entries with all pertinent information to Mark Ford, department of news services, Trustee House.

Dial mainframe differently

The equipment used for dial-up access to the Computer Center's mainframe has been changed.

If you plan to dial into the mainframe, you should obtain a copy of "How to Dial-up the Mainframe Computer," available at the Computer Center help desk and in most remote facilities.

Cross's work featured

Sydney Cross, assistant professor of visual arts and history, is one of 10 artists from South Carolina to have work featured in the 1986 Guild of South Carolina Artists traveling exhibition that will be on display in Lee Gallery Aug. 20 - Sept. 9.

Lee Gallery is located in Lee Hall. Exhibits are free and open to the public Monday through Friday from 9 a.m. - 4:30 p.m. and Sunday from 2 - 5 p.m. during the academic year.

Dropout network founder to speak in Tillman Aug. 26

Dr. Raymond G. Eberhard, co-founder and executive director of the recently established National Dropout Prevention Network, will speak Wednesday, Aug. 26, at 7:30 p.m. in Tillman Hall Auditorium. The topic of his lecture, which is open to the public at no charge, will be "School Dropouts: Problems and Solutions."

In addition to his duties with the dropout prevention network, Eberhard is director of the High Risk Youth Unit of the California Department of Education and is responsible for coordinating dropout prevention and recovery programs in that state.

He has worked as a teacher and administrator in secondary and continuing education.

The National Dropout Prevention Network was established in May to provide educators, school administrators and others interested in the school dropout problem a means of exchanging ideas and possible solutions.

Eberhard's lecture is sponsored by the National Dropout Prevention Center here, a clearinghouse for information on dropout prevention, and the department of elementary and secondary education.

Orange Carpet rolled out Aug. 22

More than 800 top high school seniors and their parents have been invited to participate in the University's ninth annual Orange Carpet Day Aug. 22.

The guests will spend the day touring the campus and meeting faculty, students and administrators, including President Max Lennon.

Orange Carpet Day is sponsored by the Clemson Alumni Association,

the Student Alumni Council and the Admissions Office to encourage outstanding high school students to attend Clemson.

Invitations are sent to rising seniors in the top 10 percent of their class who have scored at least 1,100 on the Scholastic Aptitude Test or least 130 on the Preliminary Scholastic Aptitude Test and who have expressed an interest in Clemson.

Clemson World editor wants ideas, opinions

The editor of *Clemson World* is looking for ideas on ways to improve the University's magazine, which is published quarterly for alumni and friends of Clemson.

"We're looking at some ideas right now for changing both the content

and the look of the magazine," says Margaret Pridgen. "We're redesigning *Clemson World* and the *C.U. News* tabloid to give a family look to the two publications."

If you have any ideas concerning the two, call Pridgen at 656-2061.

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University may be site of nation's first cooperative textile research center

The first cooperative education/industry Textile Research Center in the United States may be located here.

The National Science Foundation has awarded a \$25,000 grant to the University's School of Textiles to study the feasibility of establishing a textile research center in the College of Commerce and Industry. The University will match the grant dollar for dollar.

Following 18 months of planning, Mike Ellison, assistant professor, and Mel Whitley, instructor, in the textile school, will use the funds for preliminary research.

"We're going to work right away," Ellison says. "It's a two-step process. First, we will meet with

industry leaders of individual companies to identify their research interests and which of those they will support at the University.

"The second step will be to get their financial commitment. Then, we will go back to the National Science Foundation and ask for funding for the center."

Although the center is being proposed by faculty in the School of Textiles, it will be a cooperative effort involving the Colleges of Commerce and Industry, Engineering and Sciences with the U.S. textile and apparel industry.

Most fully operational centers require funding from at least 10 firms to have a sufficient research base, Ellison says.

The proposed Clemson University Textile Research Center (CUTREC) would aid the overall United States textile and apparel industry, which includes the five manufacturing sectors of fibers, apparel, textile-chemical products, textile mill products and textile processing machinery.

Ellison says this unified approach to textile research will benefit individual member companies and help many textile and apparel companies coordinate their research and development efforts.

"The very nature of the textile and apparel industry, its strategic diversity and yet its common problems, dictates that any research effort be multidisciplinary," he says.



Fine tuning

Clint Guillot of Kenner, La., tests an electronic circuit he built during this year's Summer Science and Engineering Honors Program.

Guillot was one of hundreds of students from across the nation who gave up part of their summer vacations to attend Clemson's science camp, sponsored by the Colleges of Sciences, Engineering and Liberal Arts.

Briefly...

Union games area can add to your activities

If you're planning departmental activities this year and feel like trying something different, check out the University Union games area.

Calling ahead (5838) will allow you to make arrangements to bowl, play pool or ping-pong, or even hold a tournament. You may even want to consider joining a league or forming one of your own.

The Monday night bowling league begins Aug. 31 at 6:45 p.m. The Wednesday night league begins Sept. 2 at the same time. Sign up in the games area.

Seniors camp to be held

Applications are due Aug. 28 for the senior citizens residential camp sponsored by the department of

parks, recreation and tourism management this fall.

Three one-week sessions will be held at the Outdoor Laboratory on Lake Hartwell. The dates are Sept. 7-11, Sept. 14-18 and Oct. 5-9. Each session accommodates 60 campers.

The cost is \$105 per person. For more information, contact the outdoor lab at 646-7502.

Nurse is one of first practitioner graduates

A University nurse will report back to work this academic year with credentials to offer more comprehensive health-care services to the 12,000 young people she serves.

Carolyn Brandt, a nurse at Redfern Health Center, received a certificate of completion as a nurse-practitioner Aug. 14 as part of the first graduating class of Clemson's School-Nurse-Practitioner Program.

The program is the only curriculum in the Southeast designed especially for school nurses, says Lorena Downs, program director.

Registered nurses attend Clemson for two consecutive summers and complete a practicum with a doctor or nurse-practitioner in their hometown during the regular school year between summer sessions. The summer and evening schedule allows school nurses to continue to work while attending the advanced professional program.

"The purpose of the program is to upgrade the skills of the state's, and the region's, school and college health nurses, who are sometimes the only health-care specialists children and young adults see," Downs says. "The advanced training and certification these nurses receive enable them to conduct more thorough health screenings and treatments."

The program was established through a \$550,000 grant from the U.S. Department of Health and

Human Services and complements an effort already under way by the state Department of Health and Environmental Control to upgrade preventive health care in public schools.

Downs says both DHEC and the state Department of Education contributed to drafting the Health Services Act for School-Age Children in 1985, which called for greater involvement by school nurses in health education and counseling, physical assessment and other preventive health care techniques.

"One part of the legislation was calling for more nurses with practitioner training, but there were no programs set up to provide that training in the Southeast," Downs says. "The

closest program was in Denver."

A national survey of school health programs conducted in 1985 found that children in schools employing nurse-practitioners received better overall health care, were more likely to be immunized and to obtain early treatment for ailments such as curvature of the spine, anemia and ear infections.

The survey, conducted by the Robert Wood Johnson Foundation, concluded that nurse-practitioners can provide 87 percent of the primary care needed by school-age children, but noted that fewer than 1,000 of the nation's 45,000 school nurses have practitioner training.

Classified Information

Who should employees contact to suggest changes to our present or future Insurance programs?

Employees should send any suggestions about the insurance program to the Payroll and Employee Benefits Office in G13 Sikes Hall. Any suggestions will be forwarded to the State User Advisory Committee for consideration.

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University Newsletter Editor Mark Ford
Director, News Services ... Catherine Sams

We welcome your comments and suggestions. Call us at 656-3860 or write us at the Trustee House. **DEADLINE is Sept. 1, noon, for Sept. 9 issue.**

Staff commisssion to recommend compensation package to president

At its August meeting, the Commission on Classified Staff Affairs voted to recommend a three-point compensation package to President Max Lennon as a budgetary priority for the coming year.

The package will cover employee merit raises, longevity and fringe benefits, including increased educational opportunities for employees and their dependents, University leave policies, disability compensation and increased retirement benefits.

Chairperson Pat Padgett announced that the Commission will have a representative on the Athletic Council, which advises the University administration on activities in the athletic department. Betty Hubbard, operations manager at the Computer Center, was recommended to Lennon to serve as Commission representative.

In other business, the Commission:

* Heard a presentation from Lynn Lesley, the new University wellness coordinator.

* Appointed members to its ad hoc committee to review Commission bylaws. Members of the committee are former Commission members Paul Gable, director of management services in Extension administration and Dianne Haselton, word processing operator in agricultural economics and rural sociology, and current members John Clemens, administrative assistant in the College of Forest and Recreation Resources, and Gail Jameson, staff assistant in agronomy and soils.

* Accepted an agenda for 1987-88. The agenda includes:

- 1) reviewing Personnel Division studies on classification and compensation issues.
- 2) implementing an employee recognition program.
- 3) recommending employee training programs to Personnel.

4) reviewing procedural guidelines for the Commission.

5) developing an Alumni Network among former Commission members.

6) recommending activities for the University wellness program.

7) attending a pre-retirement seminar review.

8) conducting Commission orientation sessions for new employees.

9) recommending proportionate parking fees for selected employees.

10) recommending a fringe benefits program review.

11) continuing study of a child care program.

12) recommending a compensation package.

13) releasing to constituents a monthly chairperson's report.

14) improving communications with constituents.

* Heard reports from standing committees.

Wellness Works at Clemson

Take Stock of Your Health A Self-Scoring Questionnaire

You've finally made the decision: It's time to get in shape and start living a better life. But where do you begin?

Health authorities say that taking stock of your health is the first step toward making changes in your lifestyle.

To evaluate your lifestyle, take the following quiz, developed by G. William Hettler, director of the health service and life-style improvement program at the University of Wisconsin at Stevens Point:

(Answer yes or no to the following)

- ___ Do you like your job?
- ___ Do you wake up feeling rested and refreshed every morning?
- ___ Do you weigh within five pounds of your ideal body weight?
- ___ Do you always wear a seat belt when you ride in a car?
- ___ Do you know how to measure your resting heart rate?
- ___ Do you refrain from smoking?
- ___ Is your heart rate less than 60 beats per minute?
- ___ Do you know how to measure your own blood pressure?
- ___ Do you know three methods of reducing stress and tension in your life that don't involve drugs?
- ___ On the average, do you have fewer than three alcoholic drinks a week?

If you answered yes to eight of the 10, "You should be proud of yourself -- you're doing very well," says Hettler.

If you answered yes to six or seven, "There's room for improvement in your health habits," he says.

If you answered yes to five or fewer, "You're not serious about your life and therefore are limiting your chances for survival," he says.

For more information on health and wellness, contact Lynn Lesley, University wellness coordinator, at 656-5520.

Events...

August

26-31

Cooper Library Orientation Tours. Call 656-3024 for more information.

26

Film: **"Body Heat."** Sponsored by University Union (656-2461), 7:30 p.m., Y-Theater, \$2.

26

Last day to register or add a class.

27

Short course: **"Ultimate Frisbee."** Sponsored by University Union (656-2461), 4 p.m., \$10.

27-28

Concert: **David & The Outsiders.** Sponsored by University Union (656-2461), 9 p.m., Edgars, \$1.

27-29

Film: **"Heartbreak Ridge."** Sponsored by University Union (656-2461), 7 & 9:30 p.m., Y-Theater, \$1.75.

28-Sept. 1

Beach trip. Sponsored by University Union (656-2461).

29

Concert: **Carl Rosen.** Sponsored by University Union (656-2461), 9 p.m., Edgars, \$1.

30

Film: **"Terms of Endearment."** Sponsored by University Union (656-2461), 7 & 9:30 p.m., students free.

September

1

Soccer: UNC-Asheville. 7 p.m., Riggs Field. (656-2101).

2

Movie: **"Brazil."** Sponsored by the University Union (656-2461), 7:30 p.m., Y-Theater, \$2.

3-5

Movie: **"Soul Man."** Sponsored by the University Union (656-2461), 7 and 9:15 p.m., Y-Theater, \$1.75.

4

Concert: **Band to be announced.** Sponsored by University Union (656-2461), 9 p.m., amphitheater, free.

5

Volleyball: Western Carolina, 10 a.m., Jervy Athletic Center. (656-2101).

5

Football: Western Carolina, Death Valley. (656-2101).

6

Soccer: UNC-Greensboro. 2 p.m., Riggs Field. (656-2101).

6

Movie: **"Police Academy."** Sponsored by the University Union (656-2461), 7 and 9:15 p.m., Y-Theater, free with University I.D.

7

Short course: **"Working Wardrobe."** Sponsored by the University Union (656-2461), 7-9 p.m., \$15.

7-8

Blood Drive. Sponsored by Angel Flight and Arnold Air Society (656-2035), 8:30 a.m. to 5:30 p.m., Palmetto Ballroom.

8

Chamber Music Series: **South Carolina Chamber Orchestra.** Sponsored by performing arts department (656-3043), 8 p.m., Tillman Hall Auditorium, free.

9

Performance: **Fabjance the Magician.** Sponsored by Campus Awareness, (656-2053), 8 p.m., Tillman Hall Auditorium, free.

9

Co-op Career Day.

9

Soccer: College of Charleston. 7 p.m., Riggs Field. (656-2101).

9

Short course: **"Golf Instruction."** Sponsored by the University Union (656-2461), 4-6 p.m., \$40.

9

Movie: **"Round Midnight."** Sponsored by the University Union (656-2461), 7:30 p.m., Y-Theater, \$2.

10

Performance: **Comedian Rick Kelley.** Sponsored by the University Union (656-2461), 9 p.m., Edgar's, \$1.

10-12

Film: **"The Golden Child."** Sponsored by University Union (656-2461), 7 & 9:15 p.m., Y-Theater, \$1.75.

11-12

Outdoors: **Whitewater rafting down the Gauley River in West Virginia.** Sponsored by University Union (656-2461).

11-12

Volleyball: Coca-Cola Classic, Washington, D.C. (656-2101).

13

Movie: **"To Live and Die in L.A."** Sponsored by the University Union (656-2461), 7 and 9:30 p.m., Y-Theater, free with University I.D.

Newsletter

SEP 2 1987

Vol. 27, No. 3

Sept. 2, 1987

Information for the Faculty and Staff of Clemson University

Lennon emphasizes land-grant mission, global thinking, curriculum reform

At the Aug. 19 general faculty meeting, President Max Lennon urged University faculty, staff and administrators to "think globally" and to work for curriculum reform in order to fulfill Clemson's land-grant mission.

Lennon asked each faculty member to develop a strategy this year to visit a foreign country, focusing on Asian countries where population and economic growth will be greatest in the 21st century.

"The challenge for Clemson is to focus, focus, focus. We must focus on our basic mission, which is undergraduate education, on the area where we have an opportunity for growth, which is graduate education and research, and on creating new opportunities and tapping new resources," he said.

Lennon also told the faculty to look for new ways to fulfill basic parts of its land-grant mission: aggressively recruiting students into areas that are exclusive to Clemson — agriculture, forestry and textiles — and that have more job opportunities than graduates, increasing minority representation in the faculty and administration as well as the student body, and making Clemson more accessible.

"As a land-grant university, we have an obligation in rural development and to help eliminate the pockets of poverty and illiteracy that remain in this state," he said. "Education is the answer, and we have an obligation to make education accessible to all people."

To do that, Lennon recommended instituting before next year a Summer Challenge program that would allow students to enroll under special conditions and prove themselves capable of doing college-level work.

Another group Lennon said was being overlooked at Clemson is the over-55 age bracket.

"There is a growing population of early retirees who are hungry for intellectual challenges," he said. "What are you waiting for? How about a special one-week or two-week session next summer to get some of these people into the classroom?"

He asked faculty to consider the development of a core curriculum that would provide the essentials to help students cope with a changing world.

"I see a changing world," he said, "and I see a major responsibility on your shoulders to prepare those students for a rapidly changing workplace. It seems to me that there are certain fundamentals that we should expect from every graduate of this University if they're going to be ready for that world."

Lennon said the University is creating the position of vice president for research to give that area greater visibility and focus.



Lennon

Clemson also is hiring a consultant to work in the Office of University Research to help the biological sciences identify sources of funding and develop grant proposals. Another consultant may be hired soon to advise other research areas.

Lennon pledged to continue working with state leaders and other universities for a significant state research investment to help provide the resources Clemson needs.

"Last year we had a gentlemen's agreement to delay the all-out push until this year because of the state's budget problems, but we are committed to that effort.

"The handwriting is on the wall in Washington: There will be about 300 university-industry research centers that will receive significant funding in the next five years. Clemson must be one of those. We must move swiftly or we will coin a new term — Third World States. With your help, we will not be one of those states."

First Friday celebration coming up

The annual First Friday parade and pep rally will be held Sept. 4 at 6 p.m. Thirty-five floats are expected to parade down Highway 93 from Thornhill Village to Sikes Hall. A pep rally and the crowning of Miss First Friday will follow. President Emeritus Walter Cox is this year's grand marshal.

Briefly...

Amacher honored

Ryan Amacher, dean of the College of Commerce and Industry, has been named a Distinguished Alumnus of Ripon College in Ripon, Wis.

A 1967 graduate, Amacher received the award given at the college's alumni weekend to honor "a select few who have shown distinction in their chosen careers or who have given outstanding service to their communities."

Laundries open later

Starting Sept. 7, the Thornhill Village washerette will be open from 7:30 a.m. to 5:30 p.m. Monday through Friday for the convenience of

faculty and staff.

The washerette offers next-day laundry and dry cleaning service with easy access and convenient parking.

For more information, contact Jackie Sherriff or Robert Rowland at 656-2031.

Jump back into aerobics

It's not too late to start getting in shape. Aerobics are starting up this week in Fike Recreation Center.

Sponsored by the intramural department, two levels are offered:

Aerobics are held every Monday, Wednesday and Friday from noon to 1 p.m.; every Tuesday and Thursday from 11:30 a.m. to 12:30 p.m., and hourly each day (except Fridays and

weekends) from 4 p.m. to 7 p.m.

These classes meet in the multi-purpose room on the first floor.

Low-impact aerobics will be held at hourly intervals Monday through Thursday from 4 p.m. to 6 p.m.

These classes meet in room 252 on the second floor.

For information, call 656-2116.

S.C. Orchestra to perform

The S.C. Chamber Orchestra will perform in Tillman Hall Auditorium Sept. 8, kicking off the 1987-88 Chamber Music Series.

The 8 p.m. concert is free and open to faculty, staff and the public. The series is sponsored by the performing arts department.

Florida plant pathologist named director of regulatory and public service programs

Calvin L. Schoulties, chief plant pathologist with the Florida Department of Agriculture and Consumer Services, has been named director of the University's Division of Regulatory and Public Service Programs.

This division is charged with enforcing South Carolina laws on fertilizer and lime, boll weevil eradication and other crop pests, abandoned orchards, seed certification, pesticides and bee disease.

When he assumes his new job at Clemson in mid-October, Schoulties, 43, will be responsible for direction and leadership of these Clemson departments: fertilizer and pesticide control, plant industry, seed certification and several aspects of the department of agricultural chemical services.

The Kentucky native earned a bachelor's degree in microbiology and a doctorate in plant pathology from the University of Kentucky. He worked in plant pathology at the

University of California at Berkeley before joining the Florida Department of Agriculture and Consumer Services in 1975.

Since 1971 he has written or co-authored about 50 technical papers. He received a citation of special recognition from the Florida Department of Agriculture in 1983 for authorship of a regulatory, scientific publication.

In 1985 Schoulties was presented an outstanding service award for excellence in dedicated service to the regulatory profession.



Schoulties

The Clemson University Newsletter is published for the faculty and staff of Clemson University by the Division of University Relations.

University Newsletter Editor Mark Ford
Director, News Services Catherine Sams

We welcome your comments and suggestions. Call us at 656-3860 or write us at the Trustee House. **DEADLINE is Sept. 8, noon, for Sept. 16 Issue.**



The dog days of summer...

As summer comes to a close and the fall semester kicks off, faculty members in the College of Architecture welcome back their students with a combination hotdog cookout and dumpster painting competition.

Professor Lamar Brown (right) was one of the many faculty who slaved over the hot grills while students slaved over their hot metal canvases, working to add personal touches to the usually-drab dumpsters.

University signs 'super' agreement

The Division of Computing and Information Technology has signed a research and development agreement that will expand the University's involvement in supercomputing.

National Advanced Systems (NAS), a subsidiary of National Semiconductor Corp., has signed an agreement worth \$356,000 to collaborate on developing software for use on NAS vector processors.

NAS is providing Clemson with a vector processor and associated software, giving Clemson researchers computing power of supercomputer proportions, says Chris Duckenfield, vice provost for Computing and Information Technology.

"Having the NAS equipment will significantly enhance our ability to attract and support faculty and researchers who need access to

massive computing power," Duckenfield says.

Clemson is the first university to install the NAS vector processor, which attaches to the NAS XL series of mainframe computers.

The addition of the NAS equipment in the new computer operations center under construction at the Clemson Research Park in Anderson County should help attract high-technology industries to the area, Duckenfield says.

"Clemson is building a national reputation for its pioneering work in supercomputing," he says. "This is attractive not only to prospective students, faculty and researchers, but also to those industries that can benefit from proximity to a rare combination of supercomputing equipment and expertise."

The University Soccer Club is looking for a coach. Anyone interested should call John Sanford or Frank Zanlin at 654-6335.

Student alumni group sponsors speakers

The secretary of the Navy and the editors of two national magazines will be on campus next week to speak at the 1987 Student Alumni Associations/Student Foundations National Convention.

Walter Anderson, editor in chief of *Parade* magazine, kicks off the convention Sept. 11 with a 9:30 a.m. keynote address in Tillman Hall Auditorium. Navy Secretary James Webb speaks in Tillman at 6:30 p.m.

On Sept. 12, Randy Jones, publisher of *Esquire* magazine, will speak at 9 a.m., also in Tillman.

All three lectures are free and open to faculty, staff and the public.

The Clemson Student Alumni Council is hosting the convention for the second time in a decade, making Clemson the first two-time host in the event's nine-year history.

As many as 600 student delegates from more than 200 schools across the country are expected to attend.

The Clemson SAC is one of the oldest student alumni organizations in the nation.

Women in Higher Education meet Sept. 9

The Women in Higher Education Network (WHEN) will hold its first meeting of the year Sept. 9 at a noon luncheon in the Clemson Golden Corral.

Guest speaker for the meeting will be Georganne McMullen, volunteer for the annual Clemson Walk Against Hunger, speaking on "Hunger in

Pickens County, South Carolina and the World."

WHEN meetings are held on the second Wednesday of each month during the academic year. All women working in higher education are welcome to attend.

For more information, call Chairperson Fran Massey at 656-3389.

1987-88 Commission on Classified Staff Affairs:



Jameson



Harvey



McNinch



Seitz



Clemens



Padgett

Gail Jameson, staff assistant in agronomy and soils; **Mary Harvey**, executive support specialist in 4-H, and **Judith McNinch**, home economics administrative specialist in the Laurens County Extension office, represent the College of Agricultural Sciences.

Pat Seitz, staff assistant in performing arts, and **John Clemens**, administrative assistant in the College of Forest and Recreation Resources, represent the colleges of Education, Engineering, Forest and Recreation Resources, and Liberal Arts.

Pat Padgett, administrative assistant in the College of Nursing, and **Dixie Schmittou**, administrative specialist in the Graduate School (formerly in Commerce and Industry), represent the colleges of Architecture, Commerce and Industry, Nursing, and Sciences, and the library.

Betty Hubbard, operations manager at the Computer Center, represents the combined offices or departments of the President, Internal Audit-

ing, Human Resources, the Provost, Undergraduate Studies, the Graduate School, the Computer Center, Administrative Programming Services, Energy Research, Development, Alumni Relations, and University Relations.

Mickey Lewis, director of student development services, represents the Division of Student Affairs.

Gary McCombs, director of business systems development, and **Hank Goodman**, master craftsman, represent the Division of Business and Finance.

Ray Thompson, director of the Personnel Division, and **Ron Herrin**, director of payroll and employee benefits, are ex-officio voting members.



Schmittou



Hubbard



Lewis



McCombs



Goodman



Thompson

Commission names and numbers:

John Clemens.....3216	Judith McNinch...984-2514
Hank Goodman.....2186	(Parliamentarian)
Mary Harvey.....2414	Pat Padgett.....3073
Ron Herrin.....2000	(Chairperson)
Betty Hubbard.....3701	Dixie Schmittou.....5343
Gail Jameson.....3511	Pat Seitz.....3043
Mickey Lewis.....2151	Ray Thompson.....3357
Gary McCombs.....5271	
(Vice Chairperson)	



Herrin

Newsletter

Vol. 27, No. 4

SEP 9 1987

Sept. 9, 1987

Information for the Faculty and Staff of Clemson University

Child care forum slated for Sept. 15

An open forum to discuss child care needs and opportunities for University employees and students will be held Tuesday, Sept. 15, from 2 to 4 p.m. in Earle Hall Auditorium.

The forum will give the Clemson community a chance to hear updates on the efforts of a committee appointed by President Max Lennon to study the

feasibility of on-campus child care.

Owners and operators of child care facilities in Anderson, Oconee and Pickens counties have been invited to attend and ask questions or present proposals for meeting the university's child care needs, says Pat Padgett, committee chairperson.

"The committee is eager to share

with the community the results of a survey conducted recently which describes options and features University employees and students would find desirable in a child care facility," she says. "We hope students, staff and faculty members will be able to attend at least part of the forum. There will be plenty of opportunities to ask questions and offer input. That's the whole point of the forum, so we hope to have a large turnout."

Sams, Wood to speak at September Edwards lectures

The University will present authors Ferrol Sams and Garth Wood as guest speakers for the 1987 R.C. Edwards Science and Technology Lecture Series this month in Lee Hall.



Sams

Sams, who is also a physician, will open the series Sept. 14 at 8 p.m. in Styles Auditorium with a discussion of "Creative Writing in Your Dotage," in which he will relate the joys and pitfalls of creative writing as a second career in one's golden years.

Wood will continue the lecture series Sept. 28 at 8 p.m. with "The



Wood

Myth of Neurosis: Overcoming the Illness Excuse," an in-depth view of psychotherapy.

Receptions will follow.

The Edwards Lectures are supported by the Robert Cook Edwards Endowment for Excellence in Science and Technology, which honors Clemson's eighth president. The series brings to campus some of the most well-known figures in the national and international worlds of science and technology.

(See related story p. 2)

T.G. Clemson named to S.C. Hall of Fame

University founder Thomas Green Clemson has been named to the S.C. Hall of Fame.

Clemson joins Cardinal Joseph Bernardin, the archbishop of Chicago, as this year's only inductees. The two were selected by the S.C. Hall of Fame Board of Trustees who choose one living and one deceased South Carolinian annually for their contributions to the state.

Induction ceremonies are scheduled for sometime in early 1988 in Myrtle Beach. Clemson's induction, the hall's 37th, will coincide with the 100th anniversary of his death.

Twenty nominations for the honor — 10 living and 10 deceased — were selected by the Confederation of Local Historical Societies and forwarded to the board for consideration.

Other members of the Hall of Fame include South Carolina Statesman John C. Calhoun, Gen. William Westmoreland, former President Andrew Jackson, U.S. Sen. Strom Thurmond, jazz trumpeter Dizzy Gillespie and astronaut Charles M. Duke.

Briefly...

Jennett honored

Dean of Engineering Charles Jennett has been elected president of the Piedmont Chapter of the S.C. Society of Professional Engineers.

In addition, Jennett is the recipient of the 1987 Outstanding Alumnus Award from the University of New Mexico's College of Engineering.

Dubose is new director

William Perry "Bill" Dubose Jr. has been named the new Darlington County Extension director.

The Darlington native earned a bachelor's degree in entomology from Clemson, and a master's degree and

a doctorate in the same field from N.C. State University.

Dubose succeeds former County Extension Director Marvin Parnell, who retired in June after 30 years service.

Laundries open later

Starting Sept. 7, the Thornhill Village laundry will be open from 7:30 a.m. to 5:30 p.m. Monday through Friday for the convenience of faculty and staff.

The laundry offers next-day laundry and dry cleaning service with easy access and convenient parking.

For more information, contact Jackie Sherriff or Robert Rowland at 656-2031.

Professional Secretaries will meet Sept. 14

The Clemson Chapter of Professional Secretaries International will meet Sept. 14 at 5 p.m. in the Clemson Golden Corral.

The guest speaker will be Arichia Turner, president of PSI's South Carolina District.

Everyone is welcome to attend.

For more information, call Helen Arterburn at 656-2249.

New Wellness Wednesdays program to begin Sept. 16

If you're serious about getting fit and would like a nice change of pace at lunchtime, Wellness Wednesdays are for you.

Wellness Wednesdays, a series of lunchtime mini-lectures on wellness and wellness-related topics, begin Sept. 16. The free meetings are open to all interested persons and will

be held every Wednesday at noon in Room 174 of the P&AS Building (unless otherwise specified).

September's sessions include:

Sept. 16

"Beginning an Exercise Program Safely"

Sept. 23

"Beginning a Wellness Lifestyle"

Sept. 30

"Walking — An Exercise for all Ages"

The series is sponsored by Wellness Works at Clemson and the Personnel Division.

Edgar's Courtyard will provide bag lunches for faculty and staff. Call-in orders can be placed with Judy Tribble at 656-2434 or 656-2494.

Speakers to present auxiliary lectures

In addition to their major addresses, speakers for the R.C. Edwards Science and Technology Lecture Series will present auxiliary lectures, all of which are free and open to the public.

Ferrol Sams will lead two seminars in the Senate Chambers of the University Union complex. The first, co-sponsored with the English department, will be Sept. 14 at 3:30 p.m.

The second, co-sponsored with Alpha Epsilon Delta Premedical Society, will be Sept. 15 at 10 a.m.

Garth Wood also will speak Sept. 28 at 9 a.m. on "The Evidence Against Psychoanalysis and Psychotherapy" in 118 Brackett Hall.

Two named to Alumni National Council

Clemson residents Lewis T. Fitch and James V. Patterson have joined the University's Alumni National Council.

Fitch, Alumni Professor of Electrical and Computer Engineering, has been appointed by Provost W. David Maxwell to be the council's faculty representative.

In that role, Fitch succeeds 1963 Clemson graduate James C. Hite, Alumni Professor of Agricultural Economics and Rural Sociology.

Patterson, an agent for State Farm Insurance Co., has joined the council as the new president of IPTAY. He is a 1951 Clemson graduate.

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University Newsletter Editor Mark Ford
Director, News Services Catherine Sams

We welcome your comments and suggestions. Call us at 656-3860 or write us at the Trustee House. **DEADLINE is Sept. 15, noon, for Sept. 23 Issue.**

Extension unveils four-year problem plan

Clemson's Extension Service has formed a four-year plan to tackle many of the problems South Carolinians say are the most pressing.

Extension has formed 20 teams to work on such problems as deteriorating water quality, the need for alternative agricultural crops and teen pregnancy.

Each of the teams consists of Extension agents, specialists and administrators representing a mixture of academic departments.

The teams are:

1. agronomic cropping systems
2. aquaculture, fisheries and wildlife
3. dairy management
4. farm economy including agricultural alternatives and small farms
5. forest management
6. home grounds
7. home food production
8. horticultural crops
9. land and water resources

10. livestock management
11. food marketing, packaging and utilization
12. poultry management
13. family life education
14. family resource management
15. housing
16. health and wellness
17. human nutrition
18. leadership
19. youth development
20. rural and community resources.

The teams will monitor educational programs and evaluate progress over the next four years. They will meet quarterly and will have the flexibility to respond to changing needs in the state.

Last year more than 1,000 people took part on 62 Extension problem identification committees. They drew up a list of 1,803 problems that needed attention. A statewide series of Extension advisory committee meetings to review plans for solving these problems attracted more than

5,000 people.

"Pinpointing the problems and formulating plans to deal with them has been a true grass roots effort," says B. K. Webb, Clemson Extension director. "Throughout this long process people have expressed genuine interest in this opportunity to tell us of their concerns and have been very responsive to what we were doing."

The teams and the work they will oversee during the next four years are the result of a planning and marketing process Extension began in 1985.

In early 1986 each Extension unit and county office did a survey, gathering information on demographics, economics, politics, technology and natural resources.

Problem identification committees were formed. Some of these groups listed as many as 60 major problems in their area or field, which were summarized and listed by priority.

Coming up ...



Anderson

A lecture series will highlight the 1987 National Convention of Student Alumni Associations and Student Foundations to be held Sept. 10-13.

Parade magazine editor Walter Anderson will speak Sept. 11 at 9 a.m. in Tillman Hall Auditorium.



Webb

Navy Secretary James Webb will speak Sept. 11 at 6:30 p.m. in Tillman Auditorium.

Randy Jones, publisher of Esquire magazine, will speak Sept. 12 at 9 a.m., also in Tillman.

Faculty, staff and the public are



Jones

invited free of charge, but convention delegates will have priority seating.

The Clemson Student Alumni Council, one of the nation's oldest student alumni councils, is the first two-time host for the annual convention in its 14-year history.

Teen pregnancy is series topic

Teen pregnancy prevention will be the topic of this year's Family Life Colloquium to be held Sept. 23 in Room F-149 of the P&AS Building.

The 11:30 a.m. to 1:30 p.m. meeting will feature several short presentations with discussion following. All interested faculty and staff are invited.

The schedule is as follows:

11:30 a.m. Overview of Problem

11:45 a.m. Teen Pregnancy and School Dropout

Noon Pregnancy Among College Students

12:15 p.m. Grief and Elective Abortion -- Breaking the Emotional Bond?

12:30 p.m. Sex Education In Public Schools

12:45 p.m. Adolescent Pregnancy: Factors Associated with Choices Regarding Teen-Age Sexuality

1 p.m. Maternal, Infant and Child Health

1:15 p.m. Local Teen Pregnancy Prevention Councils

Family Life Colloquiums were started four years ago to share information about current projects, research, and curriculum related to family life and human development.

For more information, contact Janna Harden at 3288.

Events...

September

14

Short course: **"Bartending #1."** Sponsored by the University Union (656-2461), 7-9 p.m., \$7.50.

14

R.C. Edwards Lecture: **Ferrol Sams.** Sponsored by Calhoun College (656-4762), 8 p.m., Lyles Auditorium, free.

15

Speaker: **Sydney Biddle Barrows.** Sponsored by the University Union (656-2461), 8 p.m., Tillman Hall Auditorium, free.

17-18

Concert: **Killer Whales.** Sponsored by the University Union (656-2461), 9 p.m., Edgar's.

17-19

Movie: **"Black Widow."** Sponsored by the University Union (656-2461), 7 and 9:15 p.m., Y-Theater, free with University I.D.

20

Movie: **"Rebel Without a Cause."** Sponsored by the University Union (656-2461), 7 and 9:15 p.m., free with University I.D.

21

Short course: **Scuba Diving.** Sponsored by the University Union (656-2461), 7-9 p.m., \$195.

22

Short course: **Introduction to Close-up Magic.** Sponsored by the University Union (656-2461), 7-9 p.m., \$37.50.

23

Short course: **Beginning Shagging.** Sponsored by the University Union (656-2461), 7-8:15 p.m., \$10.



Dishing it out...

Biology professor Bill Surver (left) gets a bowlful from Assistant University Union Director Ronnie Laffitte during the Union's recent "Biggest Banana Split Bash" to welcome everyone back to school.

In all, 15 gallons of Clemson Ice cream were dished out to more than 500 people in just under two hours.



